

TSD File Inventory Index

Date: Oct 14 2006

Initial: CMHeneva

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Facility Identification Number: <u>ILD 079763 140</u>		
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Total - 1

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.7 Lab Data, Soil-Sampling/Groundwater		.8 Progress Reports	
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Note: Transmittal Letter to Be Included with Reports.

Comments: *Documents do not justify individual folders per schedule.*

**Public
Participation**

DEC 12 1983

ILD 079763140

Dr. Eugene Meyer
Meyer Consultants, Inc.
382 Longview Route 4
Lockport, Illinois 60441

Re: Freedom of Information Act Request
(S) R11-662-23

Dear Dr. Meyer:

This is in response to your Freedom of Information Act request of November 29, 1983, asking for copies of RCRA Part A applications of ten listed facilities.

Copies of the available documents are enclosed, together with a list of the items being sent.

There is no charge for search time or duplication because the total fees are less than \$10.00. Please contact Augusta Bloom of my staff at (312) 886-4170, if you have any questions.

Sincerely,

Nasif G. Constantelos, Director
Waste Management Division

Enclosures

cc: Facilities on enclosed list (3)
Illinois Environmental Protection Agency

bcc: N. Sullivan, OPA
C. Kavcic, WMD
B. Stone, STU#1
✓ Notification/Part A File

**A.2 Part A/
Interim Status**



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION V
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF:
RCRA ACTIVITIES

Mr. Earle E. Witt
Motorola Inc.
1301 East Algonquin Road
Schaumburg, Illinois 60196

RE: Interim Status Acknowledgement USEPA ID No. ILD079763140
FACILITY NAME: Motorola Inc.

Dear Mr. Witt:

This is to acknowledge that the U.S. Environmental Protection Agency (USEPA) has completed processing your Part A Hazardous Waste Permit Application. It is the opinion of this office that the information submitted is complete and that you, as an owner or operator of a hazardous waste management facility, have met the requirements of Section 3005(e) of the Resource Conservation and Recovery Act (RCRA) for Interim Status. However, should USEPA obtain information which indicates that your application was incomplete or inaccurate, you may be requested to provide further documentation of your claim for Interim Status. Our opinion will be reevaluated on the basis of this information.

As an owner or operator of a hazardous waste management facility, you are required to comply with the interim status standards as prescribed in 40 CFR Parts 122 and 265, or with State rules and regulations in those States which have been authorized under Section 3006 of RCRA. In addition, you are reminded that operating under interim status does not relieve you from the need to comply with all applicable State and local requirements.

The printout enclosed with this letter identifies the limit(s) of the process design capacities your facility may use during the interim status period. This information was obtained from your Part A Permit application. If you wish to handle new wastes, to change processes, to increase the design capacity of existing processes, or to change ownership or operational control of the facility, you may do so only as provided in 40 CFR Sections 122.22 and 122.23.

As stated in the first paragraph of this letter, you have met the requirements of 40 CFR Part 122.23; your facility may operate under interim status until such time as a permit is issued or denied. This will be preceded by a request from this office or the State (if authorized) for Part B of your application. Please contact Arthur Kawatachi of my staff at (312) 886-7449, if you have any questions concerning this letter or the enclosure.

Sincerely yours,



Karl J. Klepitsch, Jr., Chief
Waste Management Branch

Enclosure

DK
3/16/82

FACILITY NAME

MOTOROLA INC

EPA ID NUMBER

ILD079763140

FACILITY OPERATOR

MOTOROLA INC

FACILITY OWNER

MOTOROLA INC

FACILITY LOCATION

1301 E ALGONQUIN ROAD
SCHAUMBURG

IL 60196

PROCESS CODE

DESIGN CAPACITY

UNIT OF MEASURE

S01

2500.00000

G

S02

6000.00000

G

*****KEY*****

PROCESS	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE	* * UNIT OF * MEASURE	CODE
STORAGE:			* GALLONS	G
			* LITERS	L
CONTAINER	S01	G OR L	* CUBIC YARDS	Y
TANK	S02	G OR L	* CUBIC METERS	C
WASTE PILE	S03	Y OR C	* GALLONS PER DAY	U
SURFACE IMPOUNDMENT	S04	G OR L	* LITERS PER DAY	V
DISPOSAL:			* TONS PER HOUR	D
			* METRIC TONS\HOUR	W
INJECTION WELL	D79	G,L,U, OR V	* GALLONS\HOUR	E
LANDFILL	D80	A OR F	* LITERS\HOUR	H
LAND APPLICATION	D81	B OR Q	* ACRE-FEET	A
OCEAN DISPOSAL	D82	U OR V	* HECTARE-METER	F
SURFACE IMPOUNDMENT	D83	G OR L	* ACRES	B
TREATMENT:			* HECTARES	Q
			* POUNDS\HOUR	J
TANK	T01	U OR V	* KILOGRAMS\HOUR	R
SURFACE IMPOUNDMENT	T02	U OR V	* TONS PER DAY	N
INCINERATOR	T03	D,W,E, OR H	* METRIC TONS\DAY	S
OTHER	T04	J,R,N,S,U,V	*	



**ACKNOWLEDGEMENT OF NOTIFICATION
OF HAZARDOUS WASTE ACTIVITY
(VERIFICATION)**

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER

• ILD079763140 REACKNOWLEDGEMENT

MOTOROLA INC
1301 E ALGONQUIN ROAD
SCHAUMBURG IL 60196

INSTALLATION ADDRESS

1301 E ALGONQUIN ROAD
SCHAUMBURG IL 60196

ART A File


MOTOROLA INC.

Communications Group

CGHM

*Check w/ RAIS
file H. copy.*

6-FEB-81

Mr. Hak Cho
State Implementation Officer
U.S. Environmental Protection Agency
Region V
230 W. Dearborn St.
Chicago, IL 60604

Dear Mr. Cho:

As of this date, I have not received a response to my letter dated 29-DEC-80 (attached) which I directed to Mr. Klipitsch.

Since we presently are receiving correspondence from Federal EPA offices, indicating our EPA identification number as ILD-042072330. It is of the utmost importance that this triple site identification number situation be resolved as quickly as possible.

Your immediate attention and response to this matter is requested. If necessary, I may be reached via telephone on 312-576-5395. Thank you for your cooperation and understanding, I remain.

Respectfully yours,

EARLE E. WITT
Group Hazardous Materials Mgr.

Deleted
1301 E Algonquin Rd

Subsequent ID# ILD079763140

eeW
encl.3



MOTOROLA INC.

Communications Group

CGHM Rm-1920

Mr. Karl J. Klipitsch Jr.
Chief, Waste Mgmt. Branch
U.S. Environmental Protection Agency
Region V
230 W. Dearborn St.
Chicago, IL 60604

29-DEC-80

re: RCRA, EPA Identification number(s).
(a) ILD 005527247, *→ Connected*
(b) ILD 042072330, *→ Separable from*
(c) ILD 079763140. *→ 1301 E*

Dear Mr. Klipitsch:

On the date of Nov. 17, 1980, I telephoned your offices to obtain our site EPA Identification number in order that we could complete our Nov. 19th, RCRA application.

The EPA Identification number given to me, that date, was (a) ILD 005527247, and is the number we presented on our site application, and is the number we are presently using regarding all regulated waste activities.

During the telephone conversation with your offices, I was also informed that there is a series of EPA Identification numbers which have been applied to our site. The site location is ... Motorola Inc., 1301 E. Algonquin Rd., Schaumburg, IL. 60196.

On Nov. 20th, we received two additional EPA Identification numbers,
(b) ILD 042072330 and (c) ILD 079763140.

I would like to obtain from your office, a clarification as to our respective EPA Identification number. Also, if you would present a complete listing of all numbers assigned to our 1301 site, I would be most anxious to clarify and/or validate identification numbers with the respective site(s), so as to prevent any future problems.

If you have any questions or comments please do not hesitate to contact me at 576-5395. Your cooperation will be appreciated.

Sincerely yours,

EARLE E. WITT
Group Hazardous Materials Mgr.

encl-2



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION V
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

20 NOV 1980



REPLY TO ATTENTION OF:

Date: November 13, 1980

To: RCRA NOTIFIERS

Subject: EPA IDENTIFICATION NUMBERS

It is my understanding that our Headquarters has not sent you an acknowledgement of the notification which you filed with this Agency. By manual search of our Regional files we have retrieved the identification number for your facility located at the address given on your notification. It is shown on the label below:

ILD 04 207 2330
MOTOROLA INC
1301 E ALGONQUIN ROAD
SCHAUMBURG IL 60196

You will receive an official acknowledgement from our Headquarters for your operation at this address in the very near future.

Sincerely,

A handwritten signature in cursive script, appearing to read "Karl J. Klepitsch, Jr.".

Karl J. Klepitsch, Jr., Chief
Waste Management Branch

W 1 L D 0 7 9 7 6 3 1 4 0 2 1

IX. DESCRIPTION OF HAZARDOUS WASTES (continued from front)

A. HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from non-specific sources your installation handles. Use additional sheets if necessary.

1 F 0 0 1 23 - 26	2 F 0 0 2 23 - 26	3 F 0 0 3 23 - 26	4 F 0 0 5 23 - 26	5 F 0 0 7 23 - 26	6 F 0 0 9 23 - 26
7	8	9	10	11	12
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

B. HAZARDOUS WASTES FROM SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific industrial sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

C. COMMERCIAL CHEMICAL PRODUCT HAZARDOUS WASTES. Enter the four-digit number from 40 CFR Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31 U 0 0 2 23 - 26	32 U 1 5 9 23 - 26	33 U 2 2 6 23 - 26	34 U 2 2 0 23 - 26	35 U 1 5 4 23 - 26	36 U 1 1 2 23 - 26
37 U 1 6 0 23 - 26	38 U 2 3 8 23 - 26	39	40	41	42
43	44	45	46	47	48
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

D. LISTED INFECTIOUS WASTES. Enter the four-digit number from 40 CFR Part 261.34 for each listed hazardous waste from hospitals, veterinary hospitals, medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

E. CHARACTERISTICS OF NON-LISTED HAZARDOUS WASTES. Mark "X" in the boxes corresponding to the characteristics of non-listed hazardous wastes your installation handles. (See 40 CFR Parts 261.21 - 261.24.)

☒ 1. IGNITABLE
(D001)

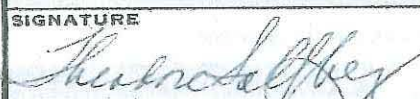
☒ 2. CORROSIVE
(D002)

☒ 3. REACTIVE
(D003)

☒ 4. TOXIC
(D000)

X. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE 	NAME & OFFICIAL TITLE (type or print) Vice President & General Manager, Motorola Inc., Fixed Prod. Division	DATE SIGNED 8/7/80
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U.S. ENVIRONMENTAL PROTECTION AGENCY

NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

INSTALLATION'S EPA I.D. NO.

NAME OF INSTALLATION

II. INSTALLATION MAILING ADDRESS

III. LOCATION OF INSTALLATION

PLEASE PLACE LABEL IN THIS SPACE

001700 AUG 20 80

INSTRUCTIONS: If you received a preprinted label, affix it in the space at left. If any of the information on the label is incorrect, draw a line through it and supply the correct information in the appropriate section below. If the label is complete and correct, leave Items I, II, and III below blank. If you did not receive a preprinted label, complete all items. "Installation" means a single site where hazardous waste is generated, treated, stored and/or disposed of, or a transporter's principal place of business. Please refer to the INSTRUCTIONS FOR FILING NOTIFICATION before completing this form. The information requested herein is required by law (Section 3010 of the Resource Conservation and Recovery Act).

FOR OFFICIAL USE ONLY

COMMENTS

INSTALLATION'S EPA I.D. NUMBER

APPROVED

DATE RECEIVED (yr., mo., & day)

P ~~ILD 042072330~~ 21 80 08 20

I. NAME OF INSTALLATION

MOTOROLA INC.

II. INSTALLATION MAILING ADDRESS

STREET OR P.O. BOX

31301 E ALGONQUIN ROAD

CITY OR TOWN

ST.

ZIP CODE

4 SCHAUMBURG IL 60196

III. LOCATION OF INSTALLATION

STREET OR ROUTE NUMBER

5 SAME

CITY OR TOWN

ST.

ZIP CODE

6 SAME

IV. INSTALLATION CONTACT

NAME AND TITLE (last, first, & job title)

PHONE NO. (area code & no.)

2 WITT EARLE E GRP HAZ-MAT MGR 312-397-1000

V. OWNERSHIP

A. NAME OF INSTALLATION'S LEGAL OWNER

8 MOTOROLA INC

B. TYPE OF OWNERSHIP (enter the appropriate letter into box)

F = FEDERAL
M = NON-FEDERAL

M

VI. TYPE OF HAZARDOUS WASTE ACTIVITY (enter "X" in the appropriate box(es))

☐ A. GENERATION☐ B. TRANSPORTATION (complete item VII)☒ C. TREAT/STORE/DISPOSE☐ D. UNDERGROUND INJECTION

VII. MODE OF TRANSPORTATION (transporters only - enter "X" in the appropriate box(es))

☐ A. AIR☐ B. RAIL☐ C. HIGHWAY☐ D. WATER☐ E. OTHER (specify):

VIII. FIRST OR SUBSEQUENT NOTIFICATION

Mark "X" in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your Installation's EPA I.D. Number in the space provided below.

☐ A. FIRST NOTIFICATION☒ B. SUBSEQUENT NOTIFICATION (complete item C)

C. INSTALLATION'S EPA I.D. NO.

~~ILD 042072330~~

IX. DESCRIPTION OF HAZARDOUS WASTES

Please go to the reverse of this form and provide the requested information.

20 AUG 1980

5	6	7	8	9	10	11	12	13	14	15
W	L	D	4	2	0	7	2	3	0	0
1	2	3	4	5	6	7	8	9	10	11

IX. DESCRIPTION OF HAZARDOUS WASTES (continued from front)

A. HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from non-specific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
7	8	9	10	11	12
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

B. HAZARDOUS WASTES FROM SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific industrial sources your installation handles. Use additional sheets if necessary.

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23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
25	26	27	28	29	30
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

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31	32	33	34	35	36
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
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43	44	45	46	47	48
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

D. LISTED INFECTIOUS WASTES. Enter the four-digit number from 40 CFR Part 261.34 for each listed hazardous waste from hospitals, veterinary hospitals, medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

E. CHARACTERISTICS OF NON-LISTED HAZARDOUS WASTES. Mark "X" in the boxes corresponding to the characteristics of non-listed hazardous wastes your installation handles. (See 40 CFR Parts 261.21 - 261.24.)

☐ 1. IGNITABLE
(D001)

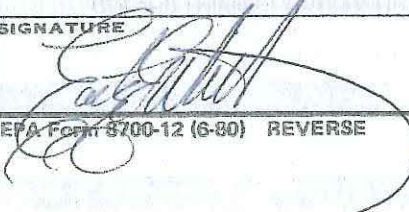
☐ 2. CORROSIVE
(D002)

☐ 3. REACTIVE
(D003)

☐ 4. TOXIC
(D000)

X. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE 	NAME & OFFICIAL TITLE (type or print) EARLE E. WITT Group Hazardous Materials Mgr.	DATE SIGNED 20-AUG-80
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FORM 1 GENERAL		U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permits Program (Read the "General Instructions" before starting.)	I. EPA I.D. NUMBER <div style="border: 1px solid black; padding: 2px; display: inline-block;"> F I L D 0 0 5 5 2 7 2 4 7 </div>
II. POLLUTANT CHARACTERISTICS <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> <p style="text-align: center; font-size: 1.2em; color: blue;">ILD079763140</p> <p style="text-align: center; font-weight: bold;">PLEASE PLACE LABEL IN THIS SPACE</p> </div>		GENERAL INSTRUCTIONS <p>If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.</p>	

SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY	1 SKIP MOTOROLA INC.
------------------------------	----------------------

IV. FACILITY CONTACT	A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
2	W. I. T. E. A. R. L. E. E. GROUP HAZARDOUS MATL. MGR.	312 576 5395

V. FACILITY MAILING ADDRESS	A. STREET OR P.O. BOX
3	1301 E. ALGONQUIN ROAD
B. CITY OR TOWN	
4	SCHAUMBURG
C. STATE	
IL	
D. ZIP CODE	
60196	

VI. FACILITY LOCATION	A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER
5	1301 E. ALGONQUIN ROAD
B. COUNTY NAME	
COOK	
C. CITY OR TOWN	
SCHAUMBURG	
D. STATE	
IL	
E. ZIP CODE	
60196	
F. COUNTY CODE (if known)	

VIII. OPERATOR INFORMATION

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

E. STREET OR P.O. BOXF. CITY OR TOWNX. EXISTING ENVIRONMENTAL PERMITS

XI. MAP

XII. NATURE OF BUSINESS (provide a brief description)

XIII. CERTIFICATION (see instructions)

A. NAME & OFFICIAL TITLE *(type or print)*

B. SIGNATURE

C. DATE SIGNED

COMMENTS FOR OFFICIAL USE ONLY

EPA Form 3510-1 (6-80)

FORM 3 RCRA		U.S. ENVIRONMENTAL PROTECTION AGENCY HAZARDOUS WASTE PERMIT APPLICATION Consolidated Permits Program (This information is required under Section 3005 of RCRA.)	I. EPA I.D. NUMBER											
			F 1 L D 0 0 5 5 2 7 2 4 7											

FOR OFFICIAL USE ONLY											
APPLICATION APPROVED				DATE RECEIVED (yr., mo., & day)				COMMENTS			
23				24				29			
ILD 079763140											

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)											
<input checked="" type="checkbox"/> 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)											
<input type="checkbox"/> 2. NEW FACILITY (Complete item below.)											
FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)											
FOR NEW FACILITIES, PROVIDE THE DATE OPERATION BEGAN OR IS EXPECTED TO BEGIN											
C 8											
YR. MO. DAY											
6 6 0 4 0 1											
B. REVISED APPLICATION (place an "X" below and complete Item I above)											
<input type="checkbox"/> 1. FACILITY HAS INTERIM STATUS											
<input type="checkbox"/> 2. FACILITY HAS A RCRA PERMIT											

III. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.
1. AMOUNT - Enter the amount.
2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PRO-CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PRO-CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			Treatment:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS	OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
Disposal:					
INJECTION WELL	D79	GALLONS OR LITERS			
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D81	ACRES OR HECTARES			
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS			
UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

S C											
D U P											
T/A C											
1 2 13 14 15											
B. PROCESS DESIGN CAPACITY											
FOR OFFICIAL USE ONLY											
1. AMOUNT (specify)											
2. UNIT OF MEASURE (enter code)											
X-1 S 0 2 600 G											
X-2 T 0 3 20 E											
1 S 0 1 2500 G											
S 0 2 6000 G											
3											
4											
16 - 18 19 27 28 29 - 32											

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE
POUNDS	P
TONS	T

METRIC UNIT OF MEASURE	CODE
KILOGRAMS	K
METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.

3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

EPA I.D. NUMBER (enter from page 1)										FOR OFFICIAL USE ONLY									
<div style="display: flex; justify-content: space-between;"> S 1 1 D 0 0 5 5 2 7 2 1 7 T/A C 1 </div> <div style="display: flex; justify-content: space-between;"> W 1 1 D 0 7 9 7 6 3 1 4 0 1 14 15 </div>										<div style="display: flex; justify-content: space-between;"> S 1 2 </div> <div style="display: flex; justify-content: space-between;"> W 1 2 </div>									
DUP										DUP									
7. DESCRIPTION OF HAZARDOUS WASTES (continued)																			
LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES															
				1. PROCESS CODES (enter)								2. PROCESS DESCRIPTION (if a code is not entered in D(1))							
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
1	D 0 0 2	17000	P	S 0 1															
2	F 0 0 7	4000	P	S 0 1															
3	D 0 0 2																	INCLUDED WITH ABOVE (F007).	
4	F 0 0 1	144000	P	S 0 1															
5	D 0 0 1	28000	P	S 0 1															
6	F 0 0 1	140000	P	S 0 2															
7	F 0 0 3																	INCLUDED WITH ABOVE (F001),	
8	F 0 0 5																	INCLUDED WITH ABOVE (F001),	
9	D 0 0 1																	INCLUDED WITH ABOVE (F001).	
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			

IV. DESCRIPTION OF HAZARDOUS WASTE

(continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 1.

ILD079763140

EPA I.D. NO. (enter from page 1)

S	F	I	L	D	0	0	5	5	2	7	2	4	7	T/A	C
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)

LONGITUDE (degrees, minutes, & seconds)

42 04 000

088 04 013

VIII. FACILITY OWNER

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER

2. PHONE NO. (area code & no.)

SE													55	56	57	58	59	60	61	62	63		
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34				
3. STREET OR P.O. BOX														4. CITY OR TOWN				5. ST.		6. ZIP CODE			
CF													CG										
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32				

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

B. SIGNATURE

C. DATE SIGNED

THEODORE SALTZBERG



18 NOV 1980

X. OPERATOR CERTIFICATION

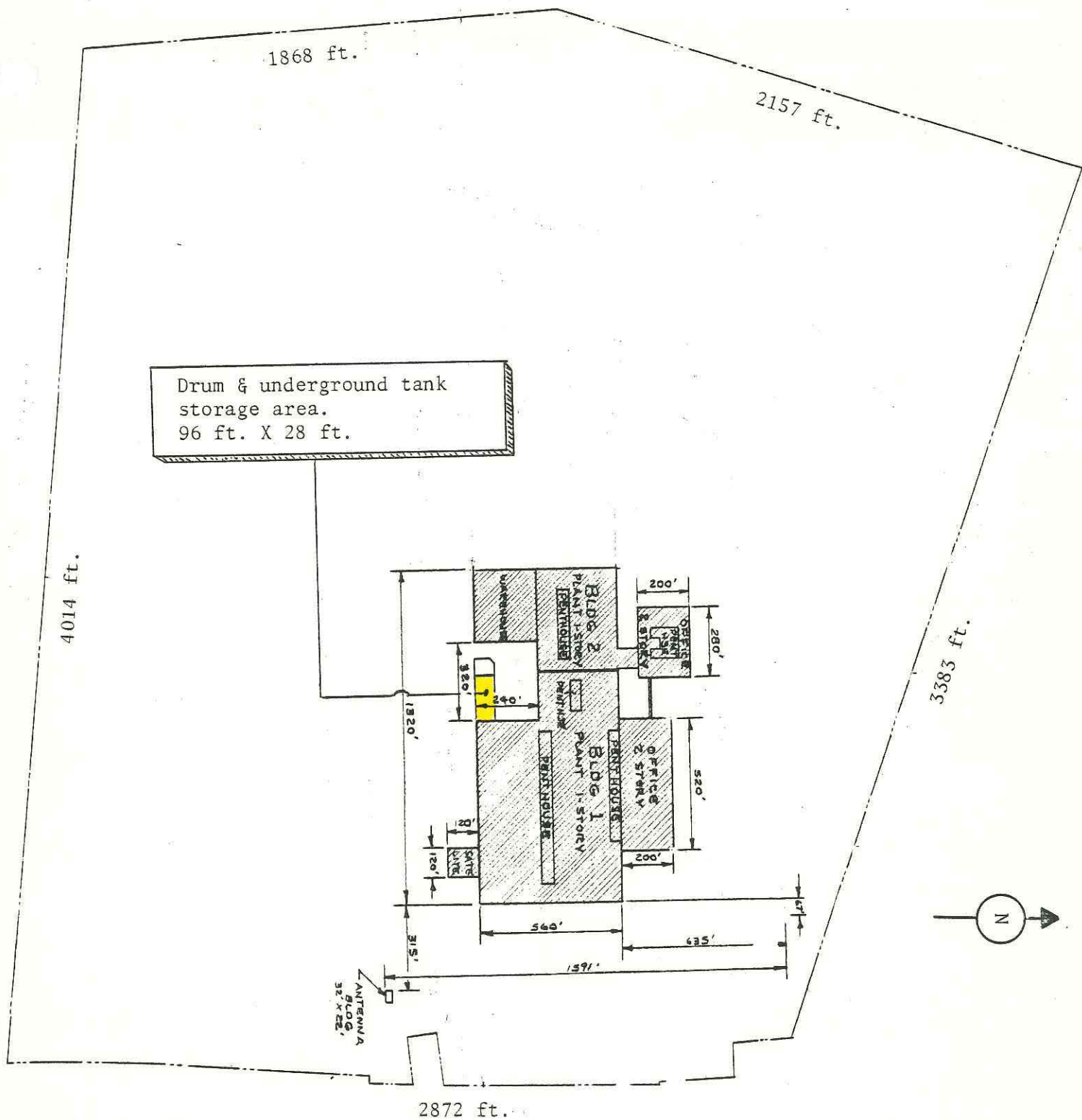
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

B. SIGNATURE

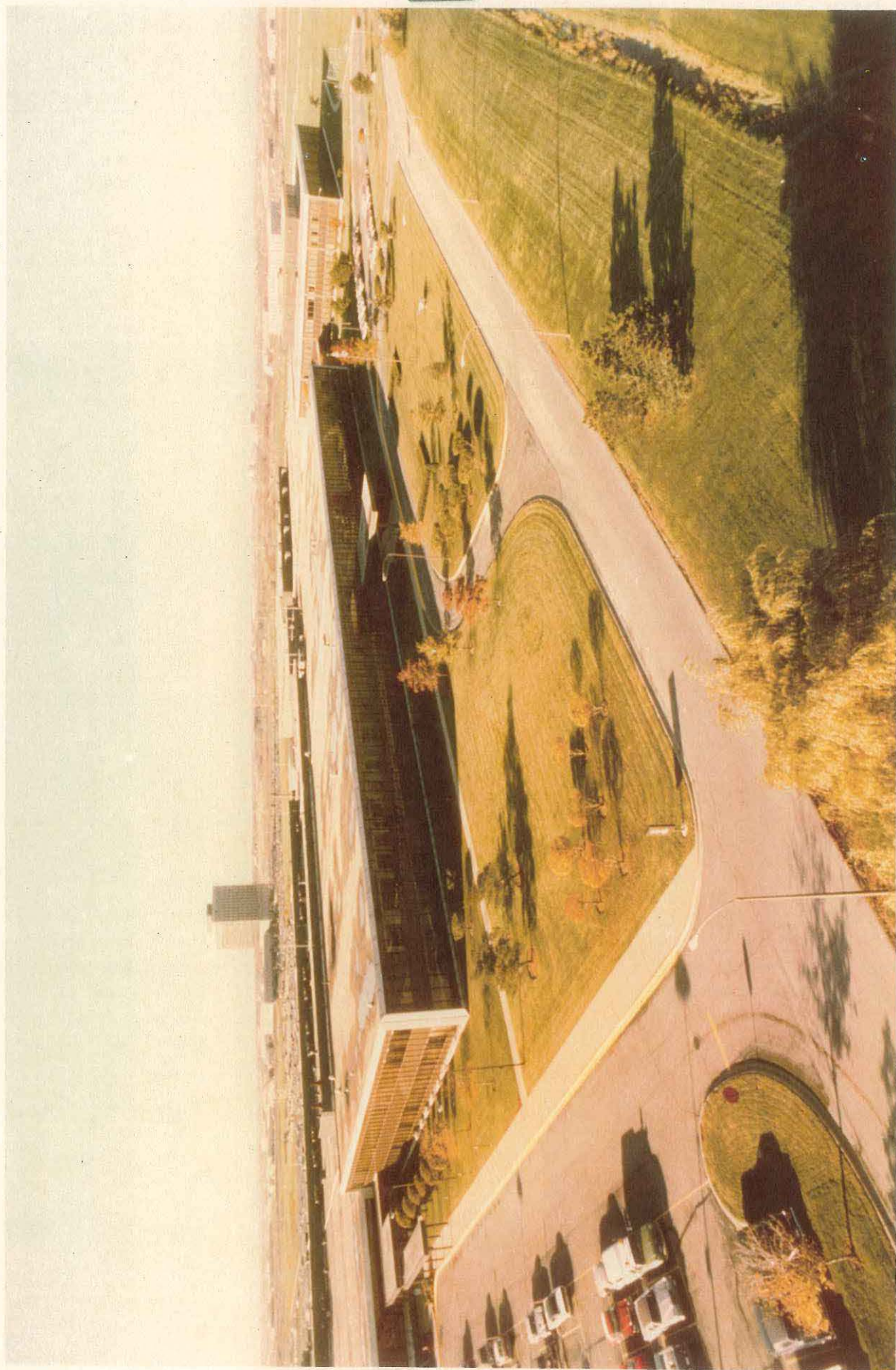
C. DATE SIGNED

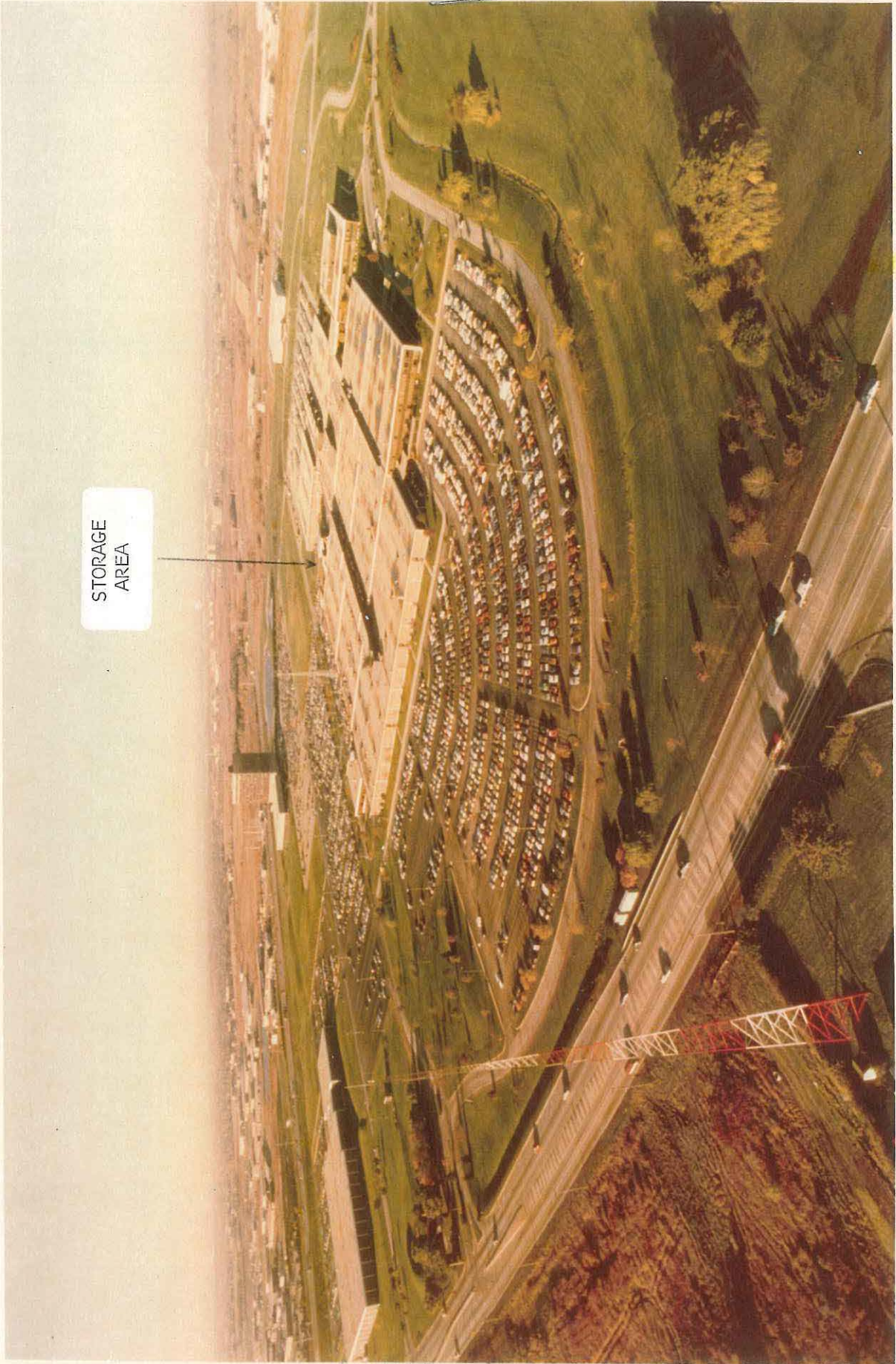
V. FACILITY DRAWING (see page 4)



Motorola Inc.
Schaumburg IL.
ILD005527247

207





STORAGE
AREA

A.4 Closure/Post- Closure



217/782-6762

Refer to: 0312820005 -- Cook County
Schaumburg/Motorola
Closure Plan Approved: March 17, 1988 Log #C-387
ILD079763140
RCRA-Closure

July 26, 1988

Motorola, Inc.
Attn: Mr. Michael E. Loch
1301 East Algonquin Road
Schaumburg, Illinois 60196

RECEIVED

AUG 16 1988

U. S. EPA, REGION V
SWB - FMS

Dear Mr. Loch:

The subject hazardous waste management facility was inspected by a representative of this Agency on July 13, 1988. The inspection revealed that the closure activity was completed in accordance with the approved closure plan dated March 17, 1988.

Certification that the container (S01) storage area had been closed in accordance with the approved closure plan by the owner/operator, Motorola, Inc., and an independent registered professional engineer, G. F. Vajda, of Illinois was received at this Agency June 24, 1988.

The Agency has determined that the closure of the container (S01) storage area has apparently met the requirements of Interim Status Standards, 35 Ill. Admin. Code, Part 725 (40 CFR, Part 265). Please note, the Agency has withdrawn your Part A application to reflect status change due to completed closure activities.

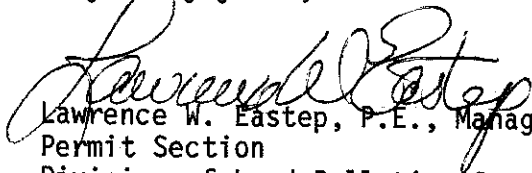
This facility must continue to meet the requirements of 35 Ill. Admin. Code, Part 722 (40 CFR, Part 262) -- Standards Applicable to Generators of Hazardous Waste and 35 Ill. Admin. Code, Part 723 (40 CFR, Part 263) -- Standards Applicable to Transporters of Hazardous Waste and is no longer subject to 35 Ill. Admin. Code, Part 725 Subpart H (40 CFR, Part 265 Subpart H) -- Financial Requirements.



Page 2

If you have any questions, please contact Eugene W. Dingleline at 217/782-5504.

Very truly yours,


Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control

LWE:EWD:rd2213j/20-21

cc: Northern Region
USEPA Region V, Mary Murphy
USEPA Region V, Art Kawatachi
Gary F. Vajda, P.E. -- Dames & Moore
Division File
Andy Vollmer
Compliance Section



Mary M

217/782-6762

Refer to: 0312820005 -- Cook County
Motorola, Inc.
Closure Plan Approved: January 16, 1986 Log #C-125
ILD079763140
RCRA-Closure

February 16, 1987

Motorola, Inc.
Attention: John R. Wienhoff
1301 East Algonquin Road
Schaumburg, Illinois 60196

Dear Mr. Wienhoff:

The subject hazardous waste management facility was inspected by a representative of this Agency on June 17, 1986. The inspection revealed that the closure activity was completed in accordance with the approved closure plan dated January 16, 1986.

Certification that the tank storage unit (S02) had apparently been closed in accordance with the approved closure plan by the owner/operator, Motorola, Inc., and an independent registered professional engineer, Clifford R. Pollock, P.E., of Illinois was received at this Agency February 26, 1986.

The Agency has determined that the closure of the tank storage unit (S02) has met the requirements of Interim Status Standards, 35 Ill. Admin. Code, Part 725 (40 CFR, Part 265). Please note, the Agency has modified your Part A application to reflect status change due to completed closure activities.

This facility must continue to meet the applicable requirements of 35 Ill. Admin. Code, Subtitle G for those units identified on the Part A application, i.e. container storage (S01) not approved for closure herein.



Page 2

If you have any questions, please contact Bob Carzen at 217/782-5762.

Very truly yours,

Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control

LWC
LWE:BAC:ba/1412g/7-8

cc: Maywood Region
USEPA Region V, Mary Murphy
Clifford R. Pollock, P.E.
Division File
Financial Assurance Unit
Compliance Monitoring



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION V
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

1LD079763140
PTA

REPLY TO ATTENTION OF:

5HW

12/22/82

John T. Hickey, Jr. VP.
Motorola, Inc.
1303 E. Algonquin Rd.
Schaumburg, IL 60196

Subject: Resource Conservation and Recovery Act (RCRA) Financial
Responsibility Requirements

Under RCRA, Illinois, Indiana, and Wisconsin are authorized states;
your firm must meet state financial responsibility requirements
rather than the federal requirements contained in 40 CFR Part 265.
Contact the state agency(ies) identified below about these require-
ments.

Feel free to contact me with questions at (312) 886-4023.

Sincerely,

Thomas B. Golz
Thomas B. Golz
Environmental Scientist

Enclosure(s): Returned material(s)

- () trust
- () letter of credit
- () surety bond
- (X) financial test
- () corporate guarantee
- () closure or post-closure insurance
- () liability insurance

copy (X)	Mr. Scott Phillips ()	Mr. Patrick Haines ()	Mr. Robert Eckdale
	Illinois EPA	Indiana State Board	Wisconsin DNR
	2200 Churchill Road	of Health	Box 7921
	Springfield, IL	1330 W. Michigan St.	Madison, WI
	62706	Indianapolis, IN	53707
		46206	

C.2 Compliance And Enforcement

November 18, 1996

U.S. EPA
Region 5
A 3587
Chicago, Illinois 60690

ILL 029 763 140
Motorola Inc,
1301 E Algonquin Rd
Schaumburg IL 60196

Subject: 90 day storage requirement and returned material

To Whom it may Concern:

Pursuant to a telephone conversation with Christine (312-886-3715) of your organization, this is the explanation of two drums that were returned to our facility.

Motorola, Inc. is a large quantity generator and subject to the 90 day storage rule for hazardous wastes.

On the 87th day of storage, February 27, 1996, two drums of liquid flammable material were manifested to a TSDF, Safety-Kleen Corporation in Dolton, Illinois. The manifest number was IL 46798275. The material was tested by Safety-Kleen and rejected due to low pH.

The material was returned to Motorola where it was treated with caustic to raise the pH level in conformance with 40 CFR 262.34 and 40 CFR 265 Subparts I and J. The same drums were manifested a second time to the same TSDF and were accepted for treatment. The second shipment was on April 8, 1996 on manifest number IL 4679304.

Motorola has initiated steps to test all flammable entries for pH as they come into the Chemical Storage Area. This will ensure that future shipments of flammable materials will not be rejected due to pH levels outside the treatment parameters of the TSDF.

If you have any questions, please contact me at (847) 576-5507.



Rod Wilkinson
Environmental Engineer

cc:Illinois EPA

RECEIVED
WMD RECORD CENTER
DEC 13 1996

ILD 079763140



MOTOROLA

ESIH, SCHAUMBURG

DATE: June 20, 1994

EPA Regional Administrator
Waste Management Division (5H13)
230 South Dearborn St.
Chicago, IL 60604

RECEIVED
WMD RECORD CENTER

JUL 08 1994

To Whom It May Concern:

Please be advised that Motorola, Inc., 1301 E. Algonquin Rd., Schaumburg, IL (USEPA ID No. ILD079763140) did not receive a copy of the attached manifest with a handwritten signature of the owner or operator of the designated facility within 45 days of the date the waste was accepted by the initial transporter. As required by 40 CFR § 262.42, Motorola contacted the facility to determine the status of the waste when a copy was not received within 35 days. It was confirmed that the facility was in receipt of the waste. However, despite numerous requests, the manifest was not received until 4/28/94, resulting in this exception report.

Motorola is now in receipt of the manifest and has been informed by the TSDF that the waste has been managed properly. If you have any questions in this matter, please do not hesitate to contact me at (708)576-5507.

Sincerely,

Theresa S. Jordan

Theresa S. Jordan
Environmental Engineer

OFFICE OF THE
REGIONAL ADMINISTRATOR

6 JUN 22 P4:58

ENVIRONMENTAL
PROTECTION AGENCY
REGIONAL OFFICE



67103

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81

IL532-0610

FOR SHIPMENT OF HAZARDOUS
AND SPECIAL WASTE

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH.

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039, Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. ILD079763140	Manifest Document No. 94007	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but is required by Illinois Law.	
3. Generator's Name and Mailing Address Motorola, Inc. 1301 E. Algonquin Rd. Schaumburg, IL 60196			Location If Different: Attn: T. Jordan Room 0202		A. Illinois Manifest Document Number IL 4679156 Fee Paid, If Applicable	
4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS			Generator: (708) 576-0313		B. Illinois Generator's ID 0 8 1 2 8 2 0 0 0 5	
5. Transporter 1 Company Name Safety-Kleen			6. US EPA ID Number ILD984908202		C. Illinois Transporter's ID 1 1 2 3	
7. Transporter 2 Company Name			8. US EPA ID Number		D. (708) 849-4850 Transporter's Phone	
9. Designated Facility Name and Site Address Safety-Kleen Envirosystems 633 East 138th St. Dolton, IL 60419			10. US EPA ID Number ILD980613913		E. Illinois Transporter's ID F. () Transporter's Phone	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers No. Type		13. Total Quantity 14. Unit Wt/Vol	
a. RQ Waste 1,1,1-Trichloroethane, 6.1, UN2831, PG II (F001)			0.01 DM 000045 G		1. Waste No. EPA HW Number X X F 001 Authorization Number 0 0 0 1 6 2	
b. RQ Waste Flammable Liquid, n.o.s., 3, UN1993, PG II (F005) (Methanol + Isopropanol)			0.04 DM 0000171 G		EPA HW Number X X F 005 Authorization Number 0 0 0 1 6 1	
c. RQ Waste Petroleum Oil, Combustible Liquid, UN1270, PG III (D006, D008) TJ			0.05 DM 0000231 G		EPA HW Number X X D 006 Authorization Number 0 0 0 1 6 1	
d. RQ Waste Kerosene, Combustible Liquid, UN1223, PG III (D008)			0.17 DM 0000862 G		EPA HW Number X X D 008 Authorization Number 0 0 0 1 6 1	
J. Additional Descriptions for Materials Listed Above 11a) ERG#27. S-K Ctrl#400129-8. 11b) ERG#27. S-K Ctrl#199330-1. Also D001, D006, D008, D025, 11c) ERG#27. S-K Ctrl#8136-7. D029, D035. 11d) ERG#27. S-K Ctrl#48000-7.			K. Handling Codes for Wastes Listed Above In Item # 14 G = Gallons Y = Cubic Yards S01/S02/R03 S01/S02/R05 S01/S02/R05 S01/S02/R05			
15. Special Handling Instructions and Additional Information Wear adequate personal protective equipment & avoid contact. If undeliverable, return to generator. EMERGENCY RESPONSE: Matt Norton (708) 576-0313, (708) 576-2161. 666 667 69						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed / Typed Name THERESA JORDAN			Signature ON BEHALF OF MOTOROLA Theresa Jordan			
17. Transporter 1 Acknowledgement of Receipt of Materials			Date Month Day Year 03 02 94			
Printed / Typed Name Kenneth Rose			Signature Kenneth Rose			
18. Transporter 2 Acknowledgement of Receipt of Materials			Date Month Day Year 03 12 94			
Printed / Typed Name			Signature			
19. Discrepancy Indication Space 11B- Added NOS approved by T. Jordan 3/11/94-MAK Reject 5 drums 11B and 11C and 11D material does not meet facility's permits. Being sent to alternate facility SK-Smithfield, KY on manifest IL 5472010.			Date Month Day Year 03 03 94			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.			Date Month Day Year 03 03 94			
Printed / Typed Name Gail M. Coffield			Signature Gail M. Coffield			

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 114 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY 31 1988

5HS-12

Mr. Michael E. Loch
Manager, Environmental
Compliance and Safety
Motorola Inc.
1301 East Algonquin Road
Schaumburg, Illinois 60196

Re: Motorola Inc.
ILD 079 763 140

Dear Mr. Loch:

The United States Environmental Protection Agency has reviewed the information which you submitted to this office on May 13, 1988. The stated actions appear to adequately address the land disposal restrictions deficiencies outlined in our April 15, 1988, Notice of Violation.

Section 268.50(a)(2)(i) requires that each container be clearly marked to identify its contents and the date each period of accumulation begins. The practice of marking each container with the start accumulation date as outlined in your response is adequate and there is no need to mark an additional date on the containers when they are moved into the storage area.

In addition, until Motorola has certified closure of its facility, it is still subject to the TSD requirements.

Your cooperation and efforts in this matter are appreciated. Should you have further questions, please feel free to contact Ms. Barbara Russell of my staff at (312) 353-7922.

Sincerely yours,

Paul E. Dimock, Chief
IL/MI/WI Enforcement Program Section

cc: Glenn Savage, IEPA, FOS
Harry Chappel, IEPA, CMS

CONCURRENCES

SYMBOL							
SURNAME	<i>o.v.</i>	<i>BR</i>	<i>2/1/88</i>				
DATE	<i>5/26/88</i>	<i>5/26/88</i>	<i>5/26/88</i>				



MOTOROLA INC.

May 13, 1988

Mr. Paul E. Dimock
Chief, IL/MI/WI Enforcement Program Section
United States Environmental
Protection Agency - Region 5
230 South Dearborn Street
Chicago, Illinois 60604

Attn: 5HS-12

RECEIVED
MAY 17 1988
U.S. EPA, REGION V
WASTE MANAGEMENT DIVISION
OFFICE OF THE DIRECTOR

Dear Mr. Dimock:

This letter is in response to the Notice of Violation directed to Motorola, Inc. in connection with the audit conducted on February 10, 1988. The purpose of the audit was to determine the facility's compliance with the applicable hazardous waste management requirements of RCRA, including the Federal land disposal restrictions. Following are corrective actions taken and/or comments regarding the three cited violations.

1. Failure to revise the waste analysis plan to include 40 CFR Part 268 requirements in accordance with Section 265.13.

Motorola's waste analysis plan has been revised to include the 40 CFR Part 268 requirements. The following statement has been added: "All waste analysis will comply with 40 CFR Part 268, either through detailed analysis or through knowledge of the waste".

2. Failure to maintain a complete operating record to include 40 CFR Part 268 requirements in accordance with Section 265.73.

Motorola's operating log has been amended to include running totals of waste in the storage area.

3. Failure to identify contents and mark dates on all containers entering storage as required by Section 268.50(a)(2)(i).

Page Two
May 11, 1988
Mr. Paul E. Dimock
United States Environmental Protection Agency

Motorola's current practice is to mark each container with the start accumulation date and the contents of the container at the time a waste is brought into a holding area from the point of generation and placed in a container. When a container is full or the container reaches the ninety-day accumulation time limit the container is moved into the storage area. The original accumulation date remains on the container until the container is removed from storage for disposal.

Based upon the inspector's citation, it appears that what is required is for a new date to be placed on a container the moment a container is placed in storage. This appears to be so based upon question II.C.1.b of the Draft RCRA F-Solvent Land Restriction TSDF Requirements Checklist which states: "Are all containers clearly marked to identify content and date(s) entering storage?" Motorola did not interpret the regulations to require a "new" date to be placed on a container when a container is placed in storage.

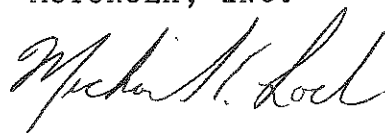
Unless you advise me that it is necessary to mark the containers with a "new" date when the containers are placed in storage, Motorola will continue to follow the practice of marking the containers with the content and the date the moment waste begins to accumulate.

I wish to point out that with respect to all of the alleged violations you cited, they occurred under requirements for TSDF's, and that at the time of the audit Motorola had already submitted a Closure Plan to the Illinois Environmental Protection Agency. It is anticipated that Closure will be completed by June 1, 1988. As you know, once Closure is completed the violations that were cited will no longer be applicable.

If the Agency requires any additional information, or if you have any questions, please feel free to contact me.

Very truly yours,

MOTOROLA, INC.



Michael E. Loch
Manager, Environmental
Compliance and Safety

MEL:lmb



P4186652551

217/782-6701

Refer to: # 0312820005 -- Cook County
Motorola, Inc.
ILD 079763140
RCRA - Permits

May 6, 1988

Motorola, Inc.
1301 E. Algonquin
Schaumburg, Illinois 60196

Attn: Environmental Coordinator or
Plant Manager

Dear Sir:

According to Agency files, your facility currently manages hazardous waste in containers and/or tanks subject to the requirements of 35 IAC 700-725. 35 IAC 703.157(f) states that interim status for any hazardous waste storage or treatment facility will be terminated November 8, 1992, unless the facility submits Part B of the RCRA permit application for these units to this Agency by November 8, 1988. This letter is written to (1) make you aware of this requirement and (2) describe the actions which must be taken in response to this requirement.

According to 35 IAC 703.157(f), if an existing facility desires to (1) store hazardous waste on-site for greater than ninety (90) days, (2) treat hazardous waste, or (3) store hazardous waste as a commercial facility after November 8, 1992, it must submit Part B of the RCRA permit application to this Agency by November 8, 1988. The information which must be contained in this application is described in 35 IAC 703, Subpart B. The enclosed document, entitled "RCRA Permit Guidance" provides more detail regarding the necessary contents of the application and also identifies several guidance documents which will be useful in developing the application. Also included in this document is the form which must be used when submitting the application.

If a facility does not desire to continue storing and/or treating hazardous waste after November 8, 1992, it must close the storage and/or treatment unit(s) present at the facility prior to this date. Closure, in this instance, basically means that all contamination must be removed from the unit(s) and if necessary, from the area surrounding these units. The requirements which must be met in closing these units are contained in 35 IAC 725, Subpart G. For your convenience, guidance for the development of a closure plan is contained in the enclosed document entitled "Instructions for the Preparation of Closure Plans for Interim Status RCRA Hazardous Waste Facilities." PLEASE NOTE THAT A CLOSURE PLAN DOES NOT NEED TO BE SUBMITTED AT THIS TIME. IT MUST HOWEVER, BE SUBMITTED TO THE AGENCY NO LATER THAN MAY 8, 1992.



Page 2

In some instances, there may be several interim status hazardous waste management units at a facility. The facility may desire to pursue a final RCRA permit for a portion of these units and close the rest of them. Because of the uncertainty associated with this option, all interim status units at a facility must be included in Part B of the RCRA permit application, unless a closure plan for the units being closed is submitted with the Part B. If a closure plan is submitted with the Part B, the application need only address those units which will remain in operation.

The only alternatives available for hazardous waste treatment and storage facilities to meet the requirements of 35 IAC 703.157(f) are (1) submit Part B of the RCRA permit application by November 8, 1988 or (2) close by November 8, 1992. However, some facilities may have previously filed Part A of the RCRA permit application in error and now feel that the hazardous waste management activities carried out at the facility do not require a RCRA permit (i.e. the Part A was filed for protective measures). If this is the case, the Agency requests that information supporting this position be submitted no later than November 8, 1988. The Agency can then review the information submitted and correct its records accordingly. The information which must be submitted to make this demonstration is contained in the enclosed document entitled "Facility Part A Withdrawal Request Form."

Finally, some facilities may have closed or are currently closing in accordance with an IEPA approved closure plan. (Please bear in mind this letter is going out to over 200 facilities; some closed facilities may inadvertently receive this letter.) In this instance, the Agency requests that a copy of (1) the closure plan approval letter and (2) the letter from the Agency accepting the certifications of the owner/operator and the registered professional engineer that closure was carried out in accordance with the approved closure plan (if closure has been completed) be submitted by November 8, 1988. The Agency will again be able to review this information and correct its records accordingly.

Because of the large number of facilities subject to the requirements of 35 IAC 703.157(f), the Agency requests that all facilities receiving this letter complete the enclosed form entitled "RCRA Permit Information Form." The form has been developed such that it can be used by a facility falling into any of the five categories described above (pursuing a final permit, planning to close, pursuing a permit for only a portion of the interim status units and closing the other units, protective filers, closed in accordance with an IEPA approved closure plan). This form must be submitted to the Agency no later than November 8, 1988, along with all required attachments. Failure to do so may subject a facility to enforcement under State and/or Federal regulations and possible monetary penalties up to \$25,000 per day of noncompliance.



Page 3

The RCRA Permit Information Form and all required attachments must be submitted in triplicate (original and two (2) copies) to the following address:

Permit Section, RCRA Unit
Division of Land Pollution Control
Illinois Environmental Protection Agency
2200 Churchill Road
P.O. Box 19276
Springfield, IL 62794-9276

If you have any questions regarding this letter, please contact Jim Moore at 217/782-9875.

Very truly yours,

Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control

LWE:JKH:dks/1238j/1244j/1-3

Enclosures

cc: Division File
Compliance
Maywood Region
USPEA Region V

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to:

Mr. Mike Lock
Motorola, Inc.
1301 East Algonquin Rd.
Schaumburg, IL 60196

4. Article Number

P571 916 687

Type of Service:

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature — Addressee

X *J. Bedard*

6. Signature — Agent

X

7. Date of Delivery

4-18-88

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Mar. 1987

★ U.S.G.P.O. 1987-178-268

DOMESTIC RETURN RECEIPT

APR 15 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Mike Loch
Motorola, Inc.
1301 East Algonquin Road
Schaumburg, Illinois 60196

Re: Notice of Violation
Motorola, Inc.
ILD 079 763 140

Dear Mr. Loch:

On February 18, 1988, the Illinois Environmental Protection Agency (IEPA), representing the U.S. Environmental Protection Agency, conducted a Resource Conservation and Recovery Act (RCRA) inspection of the above-referenced facility. The purpose of the inspection was to determine the facility's compliance with the applicable hazardous waste management requirements of RCRA, including the Federal land disposal restrictions. The Land Disposal Restrictions for F001-F005 spent solvents became effective on November 8, 1986, (40 CFR Part 268, and revisions to 40 CFR Parts 260-265 and 270-271).

With respect to the land disposal restrictions section of the inspection, your facility was found to be in violation of the following:

1. Failure to revise the waste analysis plan to include 40 CFR Part 268 requirements in accordance with Section 265.13;
2. Failure to maintain a complete operating record to include 40 CFR Part 268 requirements in accordance with Section 265.73; and
3. Failure to identify contents and mark dates on all containers entering storage, as required by Section 268.50(a)(2)(i).

A copy of the inspection report is enclosed for your records. Please submit to this office, within thirty (30) days of receipt of this Notice of Violation, documentation demonstrating that the above-cited violations have been corrected

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

and indicating what measures have been initiated to assure future compliance. Failure to correct the violations may subject the facility to further Federal enforcement action.

If you have any questions regarding this correspondence, please contact Ms. Barbara Russell of my staff at (312) 353-7922.

Sincerely yours,

Paul E. Dimock, Chief
IL/MI/NI Enforcement Program Section

Enclosure

cc: Harry Chappel, IEPA
Glenn Savage, IEPA

CONCURRENCES

SYMBOL							
SURNAME	O. R.	B. R.		P. E. D.			
DATE	4/7/88	4/12/88		4/13/88			



MOTOROLA INC.

March 31, 1988

Mr. Robert Bowden
Chief of Emergency Response Branch
USEPA
5HR
230 S. Dearborn
Chicago, Illinois 60604

Dear Mr. Bowden:

On March 21, 1988, Motorola, Inc., located at 1301 East Algonquin Road, Schaumburg, Illinois, was informed by its consultant, Environmental Resources Management-North Central, Inc. (ERM), that apparently more than 1000 pounds of 1,1,1 - trichloroethane had been released into the soil beneath an area of the plant where raw chemical materials are stored in a structure known as the Oil House. The release appears to have occurred over a period of a number of years. The full extent of the permeated ground area is not definitely known at this time. ERM was contacted in December of 1987 to assess the possibility that the subsurface area beneath the Oil House was being permeated with solvents released through lax handling practices. ERM conducted its study during January and February of this year and issued its report on March 21, 1988. The study also indicated that some quantities of toluene, methylene chloride, trichloroethylene, 1,1-dicchloroethane, and tetuachloroethylene were released into the subsurface area.

Upon review of the findings by Motorola personnel, oral notification was made on March 22, 1988 to the National Response Center (NRC), Illinois Emergency Services Disaster Agency (IESDA) in conjunction with the Illinois Environmental Protection Agency (IEPA), and the Schaumburg Fire Department (SPD). Following is a list of the individuals to whom the oral report was made:

<u>Agency</u>	<u>Contact</u>	<u>Log Number</u>
NRC	Martha Ewaldt	Report #3659
IESDA	Chris Mulrin	Incident #880325
IEPA	Chuck Brutlac	
SFD	Lt. O'Callahan	



Motorola intends to continue with its investigation in order to determine the extent of the contamination of the subsurface area under the Oil House and the surrounding area. Upon completion of the investigation a cleanup program will be developed and implemented.

Please accept this letter as Motorola's written notification of the incident. Similar letters will be sent to the other named agencies. Should you have any questions or require additional information, please contact me at (312) 576-5395.

Very truly yours,

MOTOROLA, INC.

Michael E. Loch
Manager
Environmental Compliance
and Safety



Environmental Protection Agency

1701 S. First Street Maywood, IL. 60153

762

312/345-9780

Refer to: 03128205 - Cook County - Schaumburg/Motorola, Inc.
ILD079763140

May 7, 1982

Mr. Earl Witt
Motorola, Inc.
1301 E. Algonquin Road
Schaumburg, Illinois 60196

Mr. Theodore Saltzberg
Motorola, Inc.
1303 E. Algonquin Road
Schaumburg, Illinois 60196

Dear Mr. Witt:

An inspection of the above facility was conducted by a representative of the Illinois Environmental Protection Agency (IEPA) on March 26, 1982. This inspection was conducted by the Illinois Environmental Protection Agency under a Cooperative Arrangement with, and authorization of, the United States Environmental Protection Agency (USEPA). A copy of the inspection report is enclosed. The purpose of the inspection was to determine your facility's compliance status with the Resource Conservation and Recovery Act (RCRA) of 1976, P.L. 94-580, as amended. We are pleased to report that your facility was found to be in compliance.

Your cooperation and efforts in this matter are appreciated. Should you have any questions about the report, please contact Glenn Sternard at the above number.

Sincerely,

A handwritten signature in cursive script, appearing to read "Kenneth P. Bechely".

Kenneth P. Bechely, Northern Region Manager
Field Operations Section
Division of Land Pollution Control

KPB:GJS:prb

Enclosure: Inspection Report

cc: Division File
Northern Region
U.S. E.P.A. - Region V

03128205
STATE IDENTIFICATION NUMBER
(if Applicable)

019763140
~~ILD005527249~~
EPA IDENTIFICATION NUMBER

RCRA INSPECTION REPORT - INTERIM STATUS STANDARDS
TREATMENT, STORAGE, AND DISPOSAL FACILITIES
Form A - General Facility Standards

I. General Information:

(A) Facility Name: MOTOROLA, Inc.
(B) Street: 1301 E. Algonquin
(C) City: SCHAUMBURG (D) State: IL (E) Zip Code: 60196
(F) Phone: (312) 576-5395 (G) County: COOK
(H) Operator: " "
(I) Street: _____
(J) City: _____ (K) State: _____ (L) Zip Code: _____
(M) Phone: _____ (N) County: _____
(O) Owner: MOTOROLA INC
(P) Street: 1303 E. Algonquin
(Q) City: Schaumburg (R) State: IL (S) Zip Code: 60196
(T) Phone: (312) 391-5000 (U) County: COOK
(V) Date of Inspection: 3-26-82 (W) Time of Inspection (From) 9:30 A (To) 11:50 A
(X) Weather Conditions: 30° Cloudy

Rev. 3-6-81/J.B.

(Y)	Person(s) Interviewed	Title	Telephone
	<u>Earle Witt</u>	<u>H. W. Manager</u>	<u>(312) - 576-5395</u>
	<u>George Wallace</u>	<u>Attorney</u>	<u>(312) - 397-5000</u>
	<u>Jerry Moloney</u>	<u>Group Traffic Mgr</u>	<u>(312) - 397-5000</u>
(Z)	<u>Phil LASALA</u>	<u>Mar Eng Dept</u>	<u>(312) - 397-5000</u>
	<u>Glenn Steward</u>	<u>IEPA/ EPS</u>	<u>(312) 345-9780</u>

(AA)	Preparer Information	Agency/Title	Telephone
	Name <u>Glenn Steward</u>	<u>IEPA/ EPS</u>	<u>(312) 345-9780</u>

II. SITE ACTIVITY:

Complete sections I through VII for all treatment, storage, and/or disposal facilities. Complete the forms (in parenthesis) in section VIII corresponding to the site activities identified below:

- | | |
|---|--|
| <p><input checked="" type="checkbox"/> A. Storage and/or Treatment</p> <p> <input checked="" type="checkbox"/> 1. Containers (I)</p> <p> <input checked="" type="checkbox"/> 2. Tanks (J)</p> <p> 3. Surface Impoundments (K)</p> <p> 4. Waste Piles (L)</p> <p><input type="checkbox"/> B. Land Treatment (M)</p> <p><input type="checkbox"/> C. Landfills (N)</p> | <p><input type="checkbox"/> D. Incineration and/or Thermal Treatment (O and P)</p> <p><input type="checkbox"/> E. Chemical, Physical, and Biological Treatment (Q)</p> |
|---|--|

Note: If facility is also a generator or transporter of hazardous waste complete sections IX and X of this form as appropriate.

III. GENERAL FACILITY STANDARDS:
(Part 265 Subpart B)

	Yes	No	NI*	Remark
(A) Has the Regional Administrator been notified regarding:				
1. Receipt of hazardous waste from a foreign source?	—	X	—	<u>No import of foreign waste</u>
2. Facility expansion?	—	X	—	<u>No expansion</u>
(B) General Waste Analysis:				
1. Has the owner or operator obtained a detailed chemical and physical analysis of the waste?	✓	—	—	_____
2. Does the owner or operator have a detailed waste analysis plan on file at the facility?	✓	—	—	_____
3. Does the waste analysis plan specify procedures for inspection and analysis of each movement of hazardous waste from off-site?	✓	—	—	_____
(C) Security - Do security measures include: (if applicable)				
1. 24-Hour surveillance?	✓	—	—	_____
2. Artificial or natural barrier around facility?	✓	—	—	_____
3. Controlled entry?	✓	—	—	_____
4. Danger sign(s) at entrance?	✓	—	—	_____
(D) Do Owner or Operator Inspections Include:				
1. Records of malfunctions?	✓	—	—	_____
2. Records of operator error?	✓	—	—	_____
3. Records of discharges?	✓	—	—	_____

*Not Inspected

1.1. GENERAL FACILITY STANDARDS - Continued

	Yes	No	NI*	Remarks
4. Inspection schedule?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Safety, emergency equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Security devices?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Operating and structural devices?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Inspection log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(E) Do personnel training records include: (Effective 5/19/81)				
1. Job titles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Job descriptions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Description of training?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Records of training?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Have facility personnel received required training by 5-19-81?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Do new personnel receive required training within six months?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(F) If required are the following special requirements for ignitable, reactive, or incompatible wastes addressed?				
1. Special handling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. No smoking signs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Separation and protection from ignition sources?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

*Not Inspected

IV. PREPAREDNESS AND PREVENTION:
(Part 265 Subpart C)

(A) Maintenance and Operation
of Facility:

Is there any evidence of fire,
explosion, or release of
hazardous waste or hazardous
waste constituent?

Yes No NI* Remarks

____ ☒ ____

(B) If required, does the facility
have the following equipment:

1. Internal communications or
alarm systems?

☒ ____

2. Telephone or 2-way radios
at the scene of operations?

☒ ____

3. Portable fire extinguishers,
fire control, spill control
equipment and decontamination
equipment?

☒ ____

Indicate the volume of water and/or foam available for fire control:

(C) Testing and Maintenance of
Emergency Equipment:

1. Has the owner or operator
established testing and
maintenance procedures
for emergency equipment?

☒ ____

2. Is emergency equipment
maintained in operable
conditions?

☒ ____

*3 met. dept.
30 day int. inspection*

(D) Has owner or operator provided
immediate access to internal
alarms? (if needed)

☒ ____

*Not Inspected

(E) Is there adequate aisle space for unobstructed movement?

V. CONTINGENCY PLAN AND EMERGENCY PROCEDURES:
(Part 265 Subpart D)

(A) Does the Contingency Plan contain the following information:

Yes	No	NI*	Remarks
-----	----	-----	---------

1. The actions facility personnel must take to comply with §265.51 and 265.56 in response to fires, explosions, or any unplanned release of hazardous waste? (If the owner has a Spill Prevention, Control, and Countermeasures (SPCC) Plan, he needs only to amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this Part (as applicable.)
2. Arrangements agreed by local police departments, fire departments hospitals, contractors, and State and local emergency response teams to coordinate emergency services pursuant to §265.37?
3. Names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinators?
4. A list of all emergency equipment at the facility which includes the location and physical description of each item on the list and a brief outline of its capabilities?
5. An evacuation plan for facility personnel where there is a possibility that evacuation could be necessary? (This plan must describe signal(s) to be used to begin evacuation, evacuation routes, and alternate evacuation routes?)

V. CONTINGENCY PLAN AND EMERGENCY PROCEDURES - Continued

	Yes	No	NI*	Remarks
(B) Are copies of the Contingency Plan available at site and local emergency organizations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(C) Emergency Coordinator				
1. Is the facility Emergency Coordinator identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Is coordinator familiar with all aspects of site operation and emergency procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Does the Emergency Coordinator have the authority to carry out the Contingency Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(D) Emergency Procedures				
If an emergency situation has occurred at this facility, has the Emergency Coordinator followed the emergency procedures listed in 265.56?				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Not Required</u>

VI. MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING (Part 265 Subpart E)

	Yes	No	NI*	Remarks
(A) Use of Manifest System				
1. Does the facility follow the procedures listed in §265.71 for processing each manifest?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Are records of past shipments retained for 3 years?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(B) Does the owner or operator meet requirements regarding manifest discrepancies?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

VI. RECORDKEEPING - Continued

(C) Operating Record

1. Does the owner or operator maintain an operating record as required in 265.73?

✓

2. Does the operating record contain the following information:

- **b. The method(s) and date(s) of each waste's treatment, storage, or disposal as required in Appendix I?

✓

- c. The location and quantity of each hazardous waste within the facility?

✓

- ***d. A map or diagram of each cell or disposal area showing the location and quantity of each hazardous waste? (This information should be cross-referenced to specific manifest number, if waste was accompanied by a manifest.)

NA

- e. Records and results of all waste analyses, trial tests, monitoring data, and operator inspections?

✓

- f. Reports detailing all incidents that required implementation of the Contingency Plan?

✓

- g. All closure and post closure costs as applicable? (Effective 5-19-81)

✓

** See page 33252 of the May 19, 1980, Federal Register.

*** Only applies to disposal facilities

VII. CLOSURE AND POST CLOSURE
(Part 265 Subpart G)

	Yes	No	NI*	Remarks
(A) Closure and Post Closure				
1. Is the facility closure plan available for inspection by May 19, 1981?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Has this plan been submitted to the Regional Administrator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Has closure begun?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Is closure estimate available by May 19, 1981?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(B) Post closure care and use of property				
Has the owner or operator supplied a post closure monitoring plan? (effective by May 19, 1981)				<u>Not required</u>

VIII. FACILITY STANDARDS
(Part 265, Subparts I thru R)

**I
USE AND MANAGEMENT OF CONTAINERS**

Facility Name: Motorola, Inc Date of Inspection: 3-26-82

	Yes	No	NI*	Remarks
1. Are containers in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Max on site: 24 corrosive 112 ig or rx
2. Are containers compatible with waste in them?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Are containers stored closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Are containers managed to prevent leaks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Are containers inspected weekly for leaks and defects?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Are ignitable & reactive wastes stored at least 15 meters (50 feet) from the facility property line? (Indicate if waste is ignitable or reactive.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

	Yes	No	NI*	Remarks
7. Are incompatible wastes stored in separate containers? (If not, the provisions of 40 CFR 265.17(b) apply.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Are containers of incompatible waste separated or protected from each other by physical barriers or sufficient distance?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

J
TANKS

Facility Name: Motorola, Inc.

Date of Inspection: 3/25/82

1. Are tanks used to store only those wastes which will not cause corrosion, leakage or premature failure of the tank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Do uncovered tanks have at least 60 cm (2 feet) of freeboard, or dikes or other containment structures?	<u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Flamm. chlor. solv. mix.</u> <u>- Petrol. base -</u> <u>12% chlor. solv.</u>
3. Do continuous feed systems have a waste-feed cutoff?	<u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
4. Are waste analyses done before the tanks are used to store a substantially different waste than before?	<u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>One waste only!</u>
5. Are required daily and weekly inspections done?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>underground - dipped</u> <u>weekly - sump check.</u>
6. Are reactive & ignitable wastes in tanks <u>protected</u> or rendered non-reactive or non-ignitable? Indicate if waste is ignitable or reactive. (If waste is rendered non-reactive or non-ignitable, see treatment requirements.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>ignitable.</u>
7. Are incompatible wastes stored in separate tanks? (If not, the provisions of 40 CFR 265.17(b) apply.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

8. Has the owner or operator observed the National Fire Protection Association's buffer zone requirements for tanks containing ignitable or reactive wastes?

Tank capacity: 6000 gallons

Tank diameter: 26' feet 16' long

Distance of tank from property line 1250 feet w/sump

(See table 2 - 1 through 2 - 6 of NFPA's "Flammable and Combustible Liquids Code - 1977" to determine compliance.)

K
SURFACE IMPOUNDMENTS

Facility Name: N/A

Date of Inspection: _____

1. Do surface impoundments have at least 60 cm (2 feet) of freeboard?
2. Do earthen dikes have protective covers?
3. Are waste analyses done when the impoundment is used to store a substantially different waste than before?
4. Is the freeboard level inspected at least daily?
5. Are the dikes inspected weekly for evidence of leaks or deterioration?
6. Are reactive & ignitable wastes rendered non-reactive or non-ignitable before storage in a surface impoundment? (If waste is rendered non-reactive or non-ignitable, see treatment requirements.)
7. Are incompatible wastes stored in different impoundments? (If not, the provisions of 40 CFR 265.17(b) apply.)

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

	Yes	No	NI*	Remarks
3. Has the owner or operator addressed the waste analysis requirements of 265.402?	_____	_____	_____	_____
4. Are inspection procedures followed according to 265.403?	_____	_____	_____	_____
5. Are the special requirements fulfilled for ignitable or reactive wastes?	_____	_____	_____	_____
6. Are incompatible wastes treated? (If yes, 265.17(b) applies.)	_____	_____	_____	_____

Note: EPA has temporarily suspended the applicability of the requirements of the hazardous waste regulations in 40 CFR Parts 122, 264 and 265 to owners and operators of (1) wastewater treatment tanks that receive, store, and treat wastewaters that are hazardous waste or that generate, store or treat a wastewater treatment sludge which is a hazardous waste where such wastewaters are subject to regulation under Sections 402 or 307(b) of the Clean Water Act (33 U.S.C. 1251 et seq.) and (2) neutralization tanks, transport vehicles, vessels, or containers which neutralize wastes which are hazardous only because they exhibit the corrosivity characteristic under 40 CFR §261.2 or are listed as hazardous wastes in Subpart D of 40 CFR Part 261 only for this reason.

IX

Complete this section if the owner or operator of a TSD facility also generates hazardous waste that is subsequently shipped off-site for treatment, storage, or disposal.

1. MANIFEST REQUIREMENTS

	Yes	No	NI*	Remarks
(A) Does the operator have copies of the manifest available for review?	_____✓_____	_____	_____	_____
(B) Do the manifest forms reviewed contain the following information: (If possible, make copies of, or record information from, manifest(s) that do not contain the critical elements)				
1. Manifest document number?	_____✓_____	_____	_____	_____
2. Name, mailing address, telephone number, and EPA ID Number of Generator	_____✓_____	_____	_____	_____

	Yes	No	NI*	Remarks
3. Name and EPA ID Number of Transporter(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Name, address, and EPA ID Number of Designated permitted facility and alternate facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. The description of the waste(s) (DOT shipping name, DOT hazard class, DOT identification number)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. The total quantity of waste(s) and the type and number of containers loaded?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Required certification?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Required signatures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(C) Does the owner or operator submit exception reports when needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2. PRE-TRANSPORT REQUIREMENTS

(A) Is waste packaged in accordance with DOT Regulations? (Required prior to movement of hazardous waste off-site)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(B) Are waste packages marked and labeled in accordance with DOT regulations concerning hazardous waste materials? (Required to movement of hazardous waste off-site)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(C) If required, are placards available to transporters of hazardous waste?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Omit Section 3 if the facility has interim status and its Part A permit application describes storage

3. On Site Accumulation

	Yes	No	NI*	Remarks
1. Are containers marked with start of accumulation date?			<u>N/A</u>	<u>PART A Storage facility</u>
2. Are the containers of hazardous waste removed from installation before they can accumulate for more than 90 days?				
3. Are wastes stored in containers managed in accordance with 40 CFR Part 265.174 and 265.176 (weekly inspections of containers, containers holding ignitable or reactive wastes located at least 15 meters (50 Feet) from facility's property line)?				
4. If wastes are stored in tanks, are the tanks managed according to the following requirements?				
a. Are tanks used to store only those wastes which will not cause corrosion leakage or premature failure of the tank?				
b. Do uncovered tanks have at least 60 cm (2 feet) of freeboard, dikes, or other containment structures?				
c. Do continuous feed systems have a waste-feed cutoff?				
d. Are required daily and weekly inspections done?				
e. Are reactive & ignitable wastes in tanks protected or rendered non-reactive or non-ignitable? (If waste is rendered non-reactive or non-ignitable, see treatment requirements?)				
f. Are incompatible wastes stored in separate tanks? (If not, the provisions of 40 CFR §265.17(b) apply)				

VI. RECORDKEEPING and REPORTING
(Part 262, Subpart D)

	Yes	No	NI*	Remarks
(A) Are Manifests, Annual Reports, Exception Reports, and all test results and analyses retained for at least three years?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(B) Has the generator submitted Annual Reports and Exception Reports as required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

VII. INTERNATIONAL SHIPMENTS
(Part 262, Subpart E)

Has the installation imported or exported Hazardous Waste?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
--	--------------------------	-------------------------------------	--------------------------	--

(If answered Yes, complete the following as applicable.)

- | | | | | |
|--|--------------------------|--|--------------------------|--|
| 1. Exporting Hazardous waste, has a generator: | | | | |
| a. Notified the Administrator in writing? | <input type="checkbox"/> | <input checked="" type="checkbox"/> NA | <input type="checkbox"/> | |
| b. Obtained the signature of the foreign consignee confirming delivery of the waste(s) in the foreign country? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| c. Met the Manifest requirements? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2. Importing Hazardous Waste, has the generator: | | | | |
| Met the manifest requirements? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

X
TRANSPORTER REQUIREMENTS
40 CFR Part 263

Complete this Section if the owner or operator transports hazardous waste.

I. MANIFEST SYSTEM AND RECORDKEEPING
(Subpart B)

	Yes	No	NI*	Remarks
Are copies of the completed manifests or shipping paper(s) available for review and retained for three years?	—	—	—	

II. INTERNATIONAL SHIPMENTS

A. Does the transporter record on the manifest the date the waste left the U.S.?

— — —

B. Are signed completed manifest(s) on file?

— — —

V. MISCELLANEOUS

A. Does transporter transport hazardous waste into the U.S. from abroad?

— — —

B. Does the transporter mix hazardous waste of different DOT shipping descriptions by placing them into a single container?

— — —

NOTE: If (A) or (B) were answered "Yes" then the Transporter is also a Generator and must comply with the Generator regulations.

*Not Inspected

REMARKS

Use this section to briefly describe site activities observed at the time of the inspection. Note any possible violations of Interim Status Standards.

Site Activity: Site activity of this Motorola facility is the assembly of electronic communications equipment along with associated equipment. Motorola manufactures two-way radios and base station equipment. The radios may be VHF, UHF or microwave. Most of the equipment is used in police communications. This manufacturing is located on the Motorola Corporate Complex in ^{Schaumburg} ~~Rolling Meadows~~, IL.

Remarks: Motorola's complex has applied under RCRA as a generator and storage facility of hazardous waste. WASTE STREAMS include solvents used for degreasing of parts, and acid waste used for dissolving "cement" on various components. The wastes generated at Motorola include 1,1,1, trichloro., methylene chloride, methyl alcohol, muriatic acid, HNO_3 , alkaline cleaning soln. The chlorinated solvents are pumped from accumulation drums into a 6000g. underground tank. The remaining WASTES ARE drummed and are stored outside on covered diked concrete pads - Rx wastes are segregated between two pads. The storage AREA is locked and monitored by security TV cameras. The facility is very well maintained, and the storage AREA is maintained in a manner that would minimize the possibility of spills or leakage.

This facility was found to be in general compliance with the applicable regulations of a generator/storage facility.



MOTOROLA INC.

1LD079 763 140

2102

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DEC 14 1989

OFFICE OF RCRA
Waste Management Division
U.S. EPA, REGION 17

December 8, 1989

Administrator
U.S. EPA Region 5
230 South Dearborn Street
Chicago, IL 60604

Subject: LDR Soft Hammer Demonstration

To Whom It May Concern:

The Motorola Schaumburg facility has retained Rollins Environmental Services to perform lab-pack services for various discarded chemicals, paint related wastes, and empty containers. Motorola identified the following "Soft Hammer" wastes:

Acetone	U002
Toluene	U220
Methylene Chloride	U080

Motorola contacted Rollins to incinerate the above wastes. The contact information is listed bellow:


Facility Name:	Rollins Environmental Services (LA) Inc. Baton Rouge, LA
EPA I.D. No.	LAD 010395127
Contact Person:	Gary McDuff
Contact Date:	December 8, 1989

I certify under penalty of law that the requirements of 40 CFR 268.8(a)(1) have been met and that I have contracted to treat my waste (or will otherwise provide treatment) by the practically available technology (incineration) which yields the greatest environmental benefit, as indicated in my demonstration. I believe that the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

U.S. EPA
Page 2
December 8, 1989

If you have any questions regarding this demonstration,
please call me at 708-576-7737.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Eddy S. Lin', followed by a horizontal line.

Eddy S. Lin
Environmental Engineer

Stream # BR-18402

page 3

Generator: Mobeola, Inc.
EPA ID # ILD079763140Address: 1301 E Algonquin Rd.
Schaumburg, IL 60196

Under manifest number(s) LA1156644-46 we are shipping to you for incineration waste that 40 CFR 268.8 applies ☐ does not apply, because the waste stream is: (If answer is "does not apply" skip below sections and sign page 4)

(A) ☐ California List (check off constituents) ☐ pH less than or equal 2.0 ☐ PCB greater than or equal 50 ppm

Liquid waste containing these ☐ As 500 mg/l ☐ Cd 100 mg/l ☐ Cr 500 mg/l ☐ Pb 500 mg/l
metals equal/greater than: ☐ Hg 20 mg/l ☐ Ni 134 mg/l ☐ Se 100 mg/l ☐ Tl 130 mg/l

☐ Total HOC's greater than or equal to 1000 mg/kg including:

- a. wastewater greater than or equal to 1000 but less than 10,000 mg/kg
- b. non-wastewater liquid waste (including free water) with HOC's greater than or equal to 10,000 mg/kg
- c. solid hazardous waste with HOC greater than or equal to 1000 mg/kg

☐ Solvent/Dioxin ☐ "First/Second" Third waste

THE ABOVE RESTRICTED WASTE IS PROPERLY CLASSIFIED BY THE BELOW EPA WASTE NUMBERS (Complete sections B,C,D,E)

(B) Solvent/Dioxin Waste ☐ F001 ☐ F002 ☐ F003 ☐ F004 ☐ F005
If any of these waste number apply, also check off F(2) below and table CCWE, page 4.

☐ F020 ☐ F021 ☐ F022 ☐ F023 ☐ F026 ☐ F027 ☐ F028

(C) First/Second Third "soft-hammer". If any of these waste numbers apply, also check F(4) below.

<input type="checkbox"/> P001	<input type="checkbox"/> P026	<input type="checkbox"/> P066	<input type="checkbox"/> P108	<input type="checkbox"/> U012	<input type="checkbox"/> U031	<input type="checkbox"/> U051	<input type="checkbox"/> U070	<input type="checkbox"/> U094	<input type="checkbox"/> U110	<input type="checkbox"/> U130	<input type="checkbox"/> U149	<input type="checkbox"/> U165	<input type="checkbox"/> U179	<input type="checkbox"/> U208	<input type="checkbox"/> U237
<input type="checkbox"/> P002	<input type="checkbox"/> P027	<input type="checkbox"/> P067	<input type="checkbox"/> P112	<input type="checkbox"/> U014	<input type="checkbox"/> U035	<input type="checkbox"/> U053	<input type="checkbox"/> U073	<input type="checkbox"/> U095	<input type="checkbox"/> U111	<input type="checkbox"/> U131	<input type="checkbox"/> U150	<input type="checkbox"/> U168	<input type="checkbox"/> U180	<input type="checkbox"/> U209	<input type="checkbox"/> U238
<input type="checkbox"/> P003	<input type="checkbox"/> P037	<input type="checkbox"/> P068	<input type="checkbox"/> P123	<input type="checkbox"/> U015	<input type="checkbox"/> U036	<input type="checkbox"/> U057	<input type="checkbox"/> U074	<input type="checkbox"/> U097	<input type="checkbox"/> U114	<input type="checkbox"/> U133	<input type="checkbox"/> U154	<input type="checkbox"/> U169	<input type="checkbox"/> U185	<input type="checkbox"/> U210	<input type="checkbox"/> U239
<input type="checkbox"/> P004	<input type="checkbox"/> P048	<input type="checkbox"/> P069	<input checked="" type="checkbox"/> U002	<input type="checkbox"/> U016	<input type="checkbox"/> U037	<input type="checkbox"/> U059	<input type="checkbox"/> U077	<input type="checkbox"/> U098	<input type="checkbox"/> U115	<input type="checkbox"/> U134	<input type="checkbox"/> U155	<input type="checkbox"/> U170	<input type="checkbox"/> U188	<input type="checkbox"/> U211	<input type="checkbox"/> U244
<input type="checkbox"/> P005	<input type="checkbox"/> P049	<input type="checkbox"/> P070	<input type="checkbox"/> U003	<input type="checkbox"/> U018	<input type="checkbox"/> U041	<input type="checkbox"/> U060	<input type="checkbox"/> U078	<input type="checkbox"/> U099	<input type="checkbox"/> U116	<input type="checkbox"/> U135	<input type="checkbox"/> U157	<input type="checkbox"/> U171	<input type="checkbox"/> U189	<input type="checkbox"/> U213	<input type="checkbox"/> U248
<input type="checkbox"/> P007	<input type="checkbox"/> P050	<input type="checkbox"/> P072	<input type="checkbox"/> U005	<input type="checkbox"/> U019	<input type="checkbox"/> U043	<input type="checkbox"/> U061	<input type="checkbox"/> U083	<input type="checkbox"/> U101	<input type="checkbox"/> U119	<input type="checkbox"/> U137	<input type="checkbox"/> U158	<input type="checkbox"/> U172	<input type="checkbox"/> U192	<input type="checkbox"/> U218	
<input type="checkbox"/> P008	<input type="checkbox"/> P054	<input type="checkbox"/> P081	<input type="checkbox"/> U007	<input type="checkbox"/> U020	<input type="checkbox"/> U044	<input type="checkbox"/> U062	<input type="checkbox"/> U086	<input type="checkbox"/> U103	<input type="checkbox"/> U122	<input type="checkbox"/> U138	<input type="checkbox"/> U159	<input type="checkbox"/> U173	<input type="checkbox"/> U193	<input type="checkbox"/> U219	
<input type="checkbox"/> P014	<input type="checkbox"/> P057	<input type="checkbox"/> P082	<input type="checkbox"/> U008	<input type="checkbox"/> U022	<input type="checkbox"/> U046	<input type="checkbox"/> U063	<input type="checkbox"/> U089	<input type="checkbox"/> U105	<input type="checkbox"/> U124	<input type="checkbox"/> U140	<input type="checkbox"/> U161	<input type="checkbox"/> U174	<input type="checkbox"/> U196	<input checked="" type="checkbox"/> U220	
<input type="checkbox"/> P016	<input type="checkbox"/> P058	<input type="checkbox"/> P084	<input type="checkbox"/> U009	<input type="checkbox"/> U023	<input type="checkbox"/> U047	<input type="checkbox"/> U064	<input type="checkbox"/> U092	<input type="checkbox"/> U106	<input type="checkbox"/> U127	<input type="checkbox"/> U142	<input type="checkbox"/> U162	<input type="checkbox"/> U176	<input type="checkbox"/> U200	<input type="checkbox"/> U226	
<input type="checkbox"/> P018	<input type="checkbox"/> P059	<input type="checkbox"/> P102	<input type="checkbox"/> U010	<input type="checkbox"/> U026	<input type="checkbox"/> U049	<input type="checkbox"/> U066	<input type="checkbox"/> U093	<input type="checkbox"/> U108	<input type="checkbox"/> U128	<input type="checkbox"/> U143	<input type="checkbox"/> U163	<input type="checkbox"/> U177	<input type="checkbox"/> U203	<input type="checkbox"/> U227	
<input type="checkbox"/> P020	<input type="checkbox"/> P060	<input type="checkbox"/> P105	<input type="checkbox"/> U011	<input type="checkbox"/> U029	<input type="checkbox"/> U050	<input type="checkbox"/> U067	<input type="checkbox"/> U094	<input type="checkbox"/> U109	<input type="checkbox"/> U129	<input type="checkbox"/> U147	<input type="checkbox"/> U164	<input type="checkbox"/> U178	<input type="checkbox"/> U206	<input type="checkbox"/> U228	

(D) First/Second Third (organic/non-metal) with treatment standards. See table CCW or CCWE 40 CFR 268.

☐ P013 ☐ P029 ☐ P039 ☐ P071 ☐ P094 ☐ P098 ☐ P121 ☐ U069 ☐ U102 ☐ U190
☐ P021 ☐ P030 ☐ P063 ☐ P089 ☐ P097 ☐ P106 ☐ U028 ☐ U088 ☐ U107 ☐ U235

If any of these waste numbers apply, also check F(2) below

(E) First/second Third with treatment method specified.

☐ P040 ☐ P041 ☐ P043 ☐ P044 ☐ P062 ☐ P085 ☐ P109 ☐ P111 ☐ U058 ☐ U087 ☐ U221 ☐ U223

If any of these waste numbers apply, also check F(1) below

(F) THE ABOVE WASTE STREAMS MUST BE INCINERATED BECAUSE:

- ☐ 1. Incineration is the treatment technology prescribed by 40 CFR 268.42. (PCB's and HOC's (except wastewater) greater than or equal to 1000 mg/kg.
- ☐ 2. The stream is an F001-F005 solvent or a "First/Second Third" waste with organic or other non-metal treatment standards
- ☐ 3. The stream is a liquid hazardous waste that is primarily water and contains HOC's in total concentration greater/equal to 1000 mg/l and less than 10000 mg/l.
- ☒ 4. The stream is a "soft-hammer" waste containing organics or other non-metal and must be treated by the best treatment practically available. Enclosed is a copy of the signed and dated demonstration and certification which we have submitted to the EPA Regional Administrator pursuant to 40 CFR 268.8 (a)(2)(ii).

**D. Corrective
Action**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

RECEIVED **DEC 22 1992**
WMD RCRA
RECORD CENTER *Compliance*

REPLY TO THE ATTENTION OF:

HRE-8J

December 15, 1992

Mr. Rick Kathan
Motorola, Inc.
1301 E. Algonquin Road
Schaumburg, Illinois 60196

Re: Visual Site Inspection
Motorola, Inc.
Schaumburg, Illinois
ILD 079 763 140

Dear Mr. Kathan:

As indicated in the letter of introduction sent to you on July 24, 1992, the U.S. Environmental Protection Agency is enclosing a copy of the final Preliminary Assessment/Visual Site Inspection (PA/VSI) report for the referenced facility. The executive summary and conclusions and recommendations sections have been withheld as Enforcement Confidential.

If you have any questions, please call Francene Harris at (312) 886-2884.

Sincerely yours,

Kevin M. Pierard, Chief
Minnesota/Ohio Technical Enforcement Section
RCRA Enforcement Branch

PRC Environmental Management, Inc.
233 North Michigan Avenue
Suite 1621
Chicago, IL 60601
312-856-8700
Fax 312-938-0118



**PRELIMINARY ASSESSMENT/
VISUAL SITE INSPECTION**

**MOTOROLA, INC.
SCHAUMBURG, ILLINOIS
ILD 079 763 140**

FINAL REPORT

Prepared for

**U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Waste Programs Enforcement
Washington, DC 20460**

Work Assignment No.	:	R05032
EPA Region	:	5
Site No.	:	ILD 079 763 140
Date Prepared	:	October 23, 1992
Contract No.	:	68-W9-0006
PRC No.	:	309-R05032IL44
Prepared by	:	Resource Applications, Inc. (John Wong)
Contractor Project Manager	:	Shin Ahn
Telephone No.	:	(312) 856-8700
EPA Work Assignment Manager	:	Kevin Pierard
Telephone No.	:	(312) 886-4448



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

HRE-8J

July 24, 1992

Mr. Rick Kathan
Motorola, Inc.
1301 E. Algonquin Road
Schaumburg, Illinois 60196

Re: Visual Site Inspection
Motorola, Inc.
ILD 079 763 140

Dear Mr. Kathan:

The United States Environmental Protection Agency (U.S. EPA) Region V will conduct a Preliminary Assessment including a Visual Site Inspection (PA/VSI) at the referenced facility. This inspection is conducted pursuant to the Resource Conservation and Recovery Act, as amended (RCRA) Section 3007 and the Comprehensive Environmental Response, Compensation, and Liability Act, as amended (CERCLA) Section 104(e). The referenced facility has generated, treated, stored, or disposed of hazardous waste subject to RCRA. The PA/VSI requires identification and systematic review of all solid waste streams at the facility. The objective of the PA/VSI is to determine whether or not releases of hazardous wastes or hazardous constituents have occurred or are occurring at the facility which may require further investigation. This analysis will also provide information to establish priorities for addressing any confirmed releases.

The visual site inspection of your facility is to verify the location of all solid waste management units (SWMUs) and areas of concern (AOCs) to make a cursory determination of their condition by visual observation. The definitions of SWMUs and AOCs are included in Attachment I. The VSI supplements and updates data gathered during a preliminary file review. During this site inspection, no samples will be taken. A sampling visit to ascertain if releases of hazardous waste or constituents have occurred may be required at a later date.

Assistance of some of your personnel may be required in reviewing solid waste flow(s) or previous disposal practices. The site inspection is to provide a technical understanding of the present and past waste flows and handling, treatment, storage, and disposal practices. Photographs of the facility are necessary to document the condition of the units at the facility and the waste management practices used.

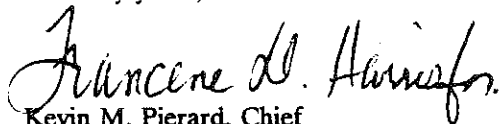
July 24, 1992
Page 2

The VSI has been scheduled for Tuesday August 4, 1992 at 9:30 a.m. The inspection team will consist of Pete McLaughlin and John Wong of Resource Applications, Inc. a contractor for the U.S. EPA. Representatives of the Illinois Environmental Protection Agency (IEPA) may also be present. Your cooperation in admitting and assisting them while on site is appreciated.

The U.S. EPA recommends that personnel who are familiar with the present and past manufacturing and waste management activities be available during the VSI. Access to any relevant maps, diagrams, hydrogeologic reports, environmental assessment reports, sampling data sheets, environmental permits (air, NPDES), manifests and/or correspondence is also necessary, as such information is needed to complete the PA/VSI. Attachment II is a summary of the information required.

If you have any questions, please contact me at (312) 886-4448 or Francene Harris at (312) 886-4446. A copy of the Preliminary Assessment/Visual Site Inspection Report, excluding the conclusions and Executive Summary portion may be made available upon request.

Sincerely yours,



Kevin M. Pierard, Chief
OH/MN Technical Enforcement Section

enclosure

cc: Larry Eastep, Chief Division of Land Pollution Control, IEPA
Charles Gruntman, IEPA

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Attachment

- A VISUAL SITE INSPECTION SUMMARY AND PHOTOGRAPHS
- B VISUAL SITE INSPECTION FIELD NOTES

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2	FACILITY LAYOUT	9

Resource Applications, Inc. (RAI) performed a preliminary assessment and visual site inspection (PA/VSI) to identify and assess the existence and likelihood of releases from solid waste management units (SWMU) and other areas of concern (AOC) at the Motorola, Inc. (Motorola) facility in Schaumburg, Cook County, Illinois. This summary highlights the results of the PA/VSI and the potential for releases of hazardous wastes or hazardous constituents from SWMUs and AOCs identified.

The Motorola facility manufactures two-way radio communications equipment and accessories. In its Components Division, quartz crystals are cut and sized, polished, cleaned, and milled prior to mounting. Plating operations also occur within this division. In its Shared Systems Division, soldering of circuit modules (chip placement) and light assembly of base radio stations takes place. The facility generates the following waste streams: spent 1,1,1-trichloroethane (TCA)(F001); spent methanol (F003); waste methanol-contaminated rags (F003); waste terpene (D001); waste D-limonene (D001); waste kerosene sludge (D001); waste kerosene sludge contaminated with Freon (F001); waste ethylene glycol (D001); waste flammable liquid solvent mixture containing isopropanol (D001), acetone (F003), toluene (F005); waste soldering dross (D008); waste flammable/non-flammable aerosol cans (D001); waste nitric acid (D002); waste hydrochloric acid (D002); waste aqua regia (D002); waste chromic acid (D002); rinsewaters/waste plating solutions (D002); wastewater treatment sludge (F006); waste oil (D001); contaminated ground water possibly containing spent TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001); waste N-methyl pyrole (D002); medical wastes; waste flux thinner/ink solvents (D001); waste PCBs; and nonhazardous grit. In the past, the facility generated spent Freon (F001) and spent methylene chloride (F001) from degreasing operations. However, these materials are no longer used by the company.

The facility has operated at its current location since 1967. The facility occupies 325 acres in a mixed commercial and residential area and employs 9,500 people (5,200 in production). Motorola's current regulatory status is that of a large-quantity generator of hazardous waste. Previously, in 1980, Motorola filed its RCRA Part A permit application and listed its status as a generator, transporter, and treatment, storage, or disposal facility (TSD). Later in 1980, it requested status as a TSD only. On the permit application, Motorola listed two units for storing hazardous wastes: a

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container storage area (S01) referring to SWMU 8, and an underground storage tank (S02) referring to SWMU 9. Motorola has been the sole owner and operator of the facility since its inception in 1967. Prior to that time, the area where the facility is located was agricultural land.

In February 1987, Motorola officially RCRA closed its Former Waste Solvent Underground Storage Tank (SWMU 9) used for storing waste flammable, chlorinated solvents. In July 1988, the facility's Former Container Storage Area (SWMU 8) was RCRA closed. These closure activities resulted in withdrawal of Motorola's RCRA Part A permit application. Consequently, the facility became subject to standards applicable to large-quantity generators which store hazardous waste for less than 90 days.

The PA/VSI identified the following 10 SWMUs at the Motorola facility:

Solid Waste Management Units

1. Satellite Accumulation Areas
2. Hazardous Waste Storage Area
3. Grit Cone Accumulation Area
4. PCB Accumulation Area
5. Solid Waste Drum Storage Area
6. Wastewater Treatment System
7. Ground Water Remediation Unit
8. Former Container Storage Area
9. Former Waste Solvent Underground Storage Tank (UST)
10. Former "Oil House" Sump

No Areas of Concern were discovered during the PA/VSI

Potential for release to ground water, surface water, air, and on-site soils from SWMUs 1 through 8 is low. SWMUs 1 through 5 manage waste in secured containers which are stored indoors on 6-inch-thick epoxy-coated concrete. There are no existing floor drains at the facility. Waste is stored for less than 90 days and is then picked up by various transporters for off-site disposal. The Wastewater Treatment System (SWMU 6) and Ground Water Remediation Unit (SWMU 7) manage wastewater enclosed in fiberglass and steel tanks and are both underlain by 6-inch-thick epoxy-coated concrete. The Former Container Storage Area (SWMU 8) for hazardous wastes was RCRA closed in 1988. There were no documented releases from this unit. The area is now used for raw materials

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storage. These raw materials are stored in secure containers on 6-inch-thick epoxy-coated concrete and no floor drains exist. The past potential for release to ground water, surface water, air, and on-site soils from SWMUs 1 through 8 was low for the same reasons given above.

The Former Waste Solvent UST (SWMU 9) was removed in December 1985. The past potential for release to ground water, surface water, and air from this unit was low. A release to on-site soils from this unit occurred during its removal on December 20, 1985. Subsequent sampling and analyses of soil samples for organic compounds and solvents held by the unit revealed concentrations well below U.S. Environmental Protection Agency (EPA) maximum contaminant levels. The backfill (soil) was disposed of at an unspecified nonhazardous solid waste landfill and the excavated area (due to the removal of the tank) was filled and repaved. Illinois Environmental Protection Agency (IEPA) approved RCRA closure of the unit in February 1987. Current potential for release to ground water, surface water, air, and on-site soils is low as the unit no longer exists.

The past potential for release to ground water, surface water and air from the Former "Oil House" Sump (SWMU 10) was low. Prior to the removal/destruction of SWMU 10 in 1988, there was a release of spent TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001) to on-site soils. A Ground Water Remediation Unit (SWMU 7) was installed and ensuing analyses of ground water samples showed concentrations of spent TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001) to be well below EPA drinking water standards. As part of a remediation project with IEPA, soil vapor extractions are to be performed. Current potential for release to ground water, surface water, air and on-site soils is low due to the removal/destruction of the unit.

The Motorola facility is situated in a mixed residential and commercial area of Schaumburg, Cook County, Illinois. Schaumburg's population is approximately 70,000. The facility is bordered on its north and east sides by residential and commercial areas, on the west by a wetland and commercial area, and on the south by the Illinois Northwest Tollway (I-90). In close proximity (within 2 miles) to the facility are various sized wetlands. The different types of wetlands in the facility's surroundings include palustrine, emergent, seasonally-flooded wetlands as well as palustrine, emergent, seasonally flooded, partially drained wetlands. Two wetlands that are palustrine, open-water, permanently flooded, and excavated are located on site. The nearest school to the Motorola

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facility is Plum Grove Junior High School, located about 1 mile northeast of the facility. The Ned Brown Forest Preserve is located 2 to 3 miles southeast of the Motorola facility.

The Motorola facility, as well as the City of Schaumburg, receives its water supply from Lake Michigan. The closest drinking water well is located approximately 1 mile northeast of the facility.

RAI recommends following up on the soil vapor extraction phase of the voluntary cleanup project of SWMU 10. RAI recommends no further action for the remaining identified SWMUs.

1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC), received Work Assignment No. R05032 from the U.S. Environmental Protection Agency (EPA) under Contract No. 68-W9-0006 (TES 9) to conduct preliminary assessments (PA) and visual site inspections (VSI) of hazardous waste treatment and storage facilities in Region 5. Resource Applications, Inc. (RAI), TES 9 team member, provided the necessary assistance to complete the PA/VSI activities for the Motorola, Inc. (Motorola) facility in Schaumburg, Illinois.

As part of the EPA Region 5 Environmental Priorities Initiative, the RCRA and CERCLA programs are working together to identify and address RCRA facilities that have a high priority for corrective action using applicable RCRA and CERCLA authorities. The PA/VSI is the first step in the process of prioritizing facilities for corrective action. Through the PA/VSI process, enough information is obtained to characterize a facility's actual or potential releases to the environment from solid waste management units (SWMU) and areas of concern (AOC).

A SWMU is defined as any discernible unit at a RCRA facility in which solid wastes have been placed and from which hazardous constituents might migrate, regardless of whether the unit was intended to manage solid or hazardous waste.

The SWMU definition includes the following:

- RCRA-regulated units, such as container storage areas, tanks, surface impoundments, waste piles, land treatment units, landfills, incinerators, and underground injection wells
- Closed and abandoned units
- Recycling units, wastewater treatment units, and other units that EPA has usually exempted from standards applicable to hazardous waste management units
- Areas contaminated by routine and systematic releases of wastes or hazardous constituents. Such areas might include a wood preservative drippage area, a loading or unloading area, or an area where solvent used to wash large parts has continually dripped onto soils.

An AOC is defined as any area where a release to the environment of hazardous waste or constituents has occurred or is suspected to have occurred on a nonroutine and nonsystematic basis. This includes any area where a strong possibility exists that such a release might occur in the future.

The purpose of the PA is as follows:

- Identify SWMUs and AOCs at the facility
- Obtain information on the operational history of the facility
- Obtain information on releases from any units at the facility
- Identify data gaps and other informational needs to be filled during the VSI

The PA generally includes review of all relevant documents and files located at state offices and at the EPA Region 5 office in Chicago.

The purpose of the VSI is as follows:

- Identify SWMUs and AOCs not discovered during the PA
- Identify releases not discovered during the PA
- Provide a specific description of the environmental setting
- Provide information on release pathways and the potential for releases to each medium
- Confirm information obtained during the PA regarding operations, SWMUs, AOCs, and releases

The VSI includes interviewing appropriate facility staff; inspecting the entire facility to identify all SWMUs and AOCs; photographing all visible SWMUs; identifying evidence of releases; making a preliminary selection of potential sampling parameters and locations, if needed; and obtaining additional information necessary to complete the PA/VSI report.

This report documents the results of a PA/VSI of the Motorola, Inc. (Motorola) facility (EPA Identification No. 079 763 140) in Schaumburg, Cook County, Illinois. The PA was completed on August 3, 1992. RAI gathered and reviewed information from the Illinois Environmental Protection Agency (IEPA) and from EPA Region 5 RCRA files. RAI also reviewed relevant publications from the United States Department of Agriculture (USDA), U.S. Department of Commerce (USDC), U.S. Geological Survey (USGS), U.S. Department of the Interior (USDI), the Federal Emergency Management Agency (FEMA), and the National Oceanic and Atmospheric Administration (NOAA). The VSI was conducted on August 4, 1992. It included interviews with facility representatives and a walk-through inspection of the facility. RAI identified 10 SWMUs and no AOCs at the facility.

The VSI is summarized and 12 inspection photographs are included in Attachment A. Field notes from the VSI are included in Attachment B.

2.0 FACILITY DESCRIPTION

This section describes the facility's location; past and present operations; waste generating processes and waste management practices; a history of documented releases; regulatory history; environmental setting; and receptors.

2.1 FACILITY LOCATION

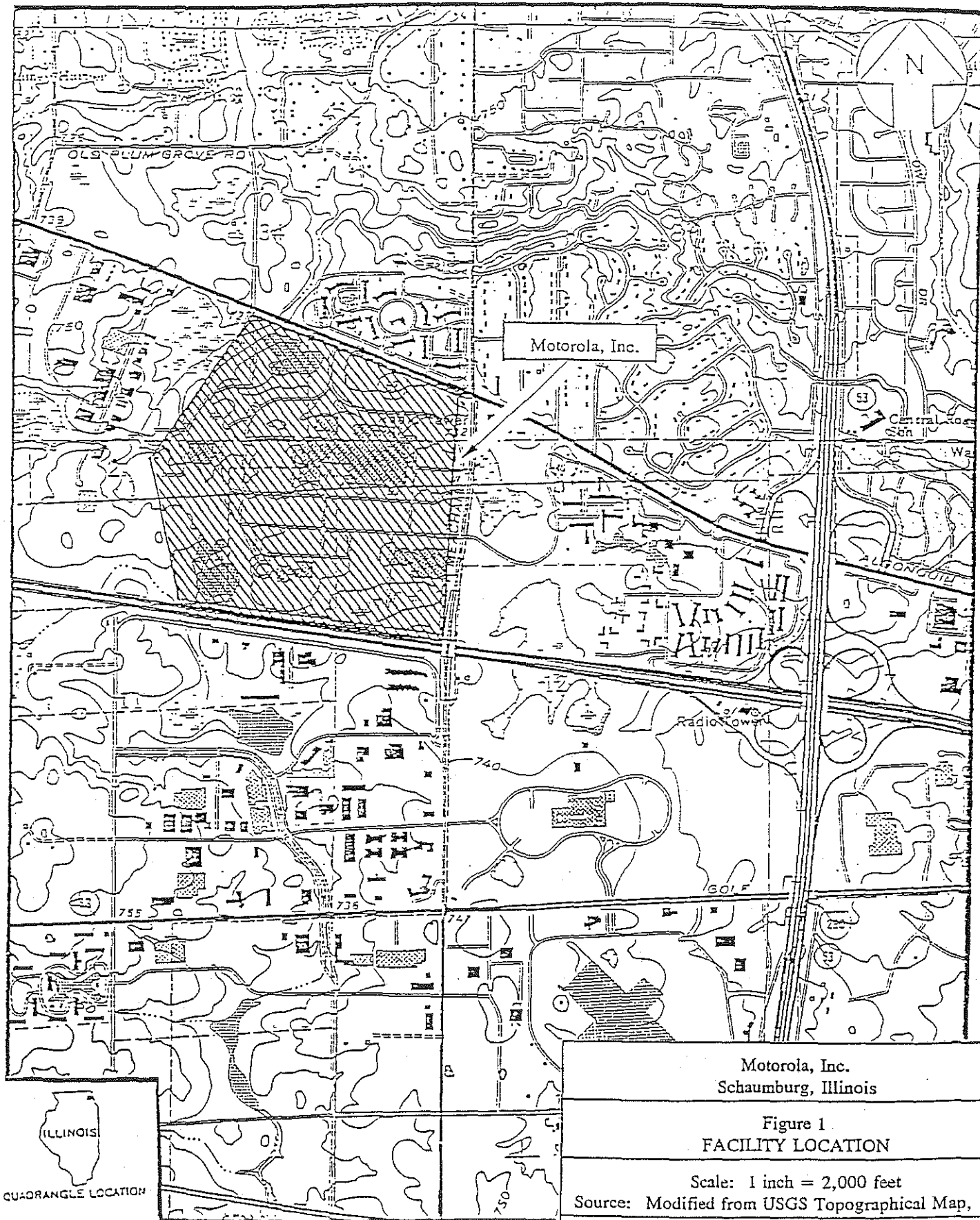
The Motorola facility is located at 1301 East Algonquin Road in Schaumburg, Cook County, Illinois. Figure 1 shows the location of the facility in relation to the surrounding topographic features (latitude 42°3'59" N and longitude 88°2'56" W). The facility occupies 325 acres in a commercial and residential mixed-use area.

The Motorola facility is bordered on the north by a residential and commercial area, on the west by a wetland and commercial area, on the south by the Illinois Northwest Tollway (I-90), and on the east by a residential and commercial area.

2.2 FACILITY OPERATIONS

Operations at Motorola's Schaumburg facility involve the manufacture of two-way radio equipment and associated accessories. More specifically, Motorola assembles base radio stations, microcircuits, quartz crystals, and electronic components. Operations are performed within two divisions of Motorola's Land Mobile Products Sector: Shared Systems and Components. Processes carried out in the Shared Systems Division are the soldering of circuit modules (chip placement) and light assembly of base radio stations. Within the Components Division, operations include the preparation of ceramic circuits and the manufacturing of quartz crystals and components by cutting, milling, polishing, cleaning, and electroplating. Solid wastes generated from Motorola's various operations and the SWMUs where they are managed are discussed in detail in Section 2.3.

Raw materials used at Motorola include corrosive chemicals, flammable solvents, and diesel fuel. Corrosive chemicals such as hydrochloric acid, nitric acid, and aqua regia (a mixture of hydrochloric acid and nitric acid) are used for purposes of dissolving metal and neutralizing the




Motorola, Inc.
Schaumburg, Illinois

Figure 1
FACILITY LOCATION

Scale: 1 inch = 2,000 feet

Source: Modified from USGS Topographical Map, 19

 Resource Applications, Inc.

contents within the on-site Wastewater Treatment System (SWMU 6). Flammable solvents, such as 1,1,1-trichloroethane (TCA) and methanol, are used for various cleaning and degreasing purposes. Both types of chemicals (flammable, corrosive) are employed in Motorola's general laboratory and research operations as well. These chemicals are stored in an area which was the Former Container Storage Area (SWMU 8). Prior to storage, the chemicals are properly segregated. Diesel fuel is used for operating Motorola's landscape equipment, and is stored in four underground storage tanks (USTs), two of which are located at the southeast corner of the facility's "1305" Building and two that are situated on the southeast corner of the Motorola's Management Information Systems (MIS) Building.

Motorola has an on-site Wastewater Treatment System (SWMU 6) that consists of a flow-through system and a batch system. Two types of reduction occur within the treatment system: chromium and cyanide (from plating operations). Rinsewaters then enter the flowthrough system and concentrated material goes to the batch system for treatment. All acids used by Motorola are managed in SWMU 6 except for those which are lab packed and sent off site for disposal.

The company also has an active Ground Water Remediation Unit (SWMU 7) which was installed to contain and treat contamination caused by a past release of spent TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001). The Ground Water Remediation Unit (SWMU 7) was installed in January 1989.

Motorola had a 2,000-gallon diesel fuel UST removed in December 1989. The reason for its removal, according to facility representatives in an April 24, 1990 letter to IEPA, was that the facility no longer needed it. Details regarding this UST are discussed more completely in Sections 2.4 and 2.5.

Solid wastes generated from facility operations and the SWMUs where they are managed are discussed in detail in Section 2.3.

Motorola has operated at the Schaumburg facility since 1967 and employs approximately 9,500 people. Of the total number of employees, about 5,200 are involved with production operations in the Land Mobile Products Sector.

The entire Motorola facility covers 325 acres with approximately 1.45 million square feet of building space and 225,000 square feet of area designated for production. The layout of the facility is such that the Land Mobile Products Sector, where manufacturing processes occur, is at the center of the facility (campus). Four parking lots (dimensions unknown) surround the Land Mobile Products Sector except on the north side, where one of Motorola's two stormwater retention ponds lies. Other buildings which comprise the Schaumburg facility are situated northwest, west, south, southwest and southeast of the Land Mobile Products Sector. These buildings include: the Management Information Systems (MIS) Building (west); Corporate Offices (south); the visitors' center (northwest); and a warehouse which provides spare parts for Motorola's products (southeast). Motorola's other stormwater retention pond lies to the southwest of the facility's center.

Prior to 1967, when Motorola began its operations in Schaumburg, the land on which the facility is located was used for agricultural purposes. Since 1967, Motorola has been the sole owner and operator of the facility.

2.3 WASTE GENERATION AND MANAGEMENT

Wastes are generated and managed at various locations at the facility. SWMUs and their current status are identified in Table 1. The locations of SWMUs in relation to the facility layout are shown in Figure 2. Wastes generated at the facility are summarized in Table 2. Facility generation and management of both hazardous and nonhazardous wastes are discussed below.

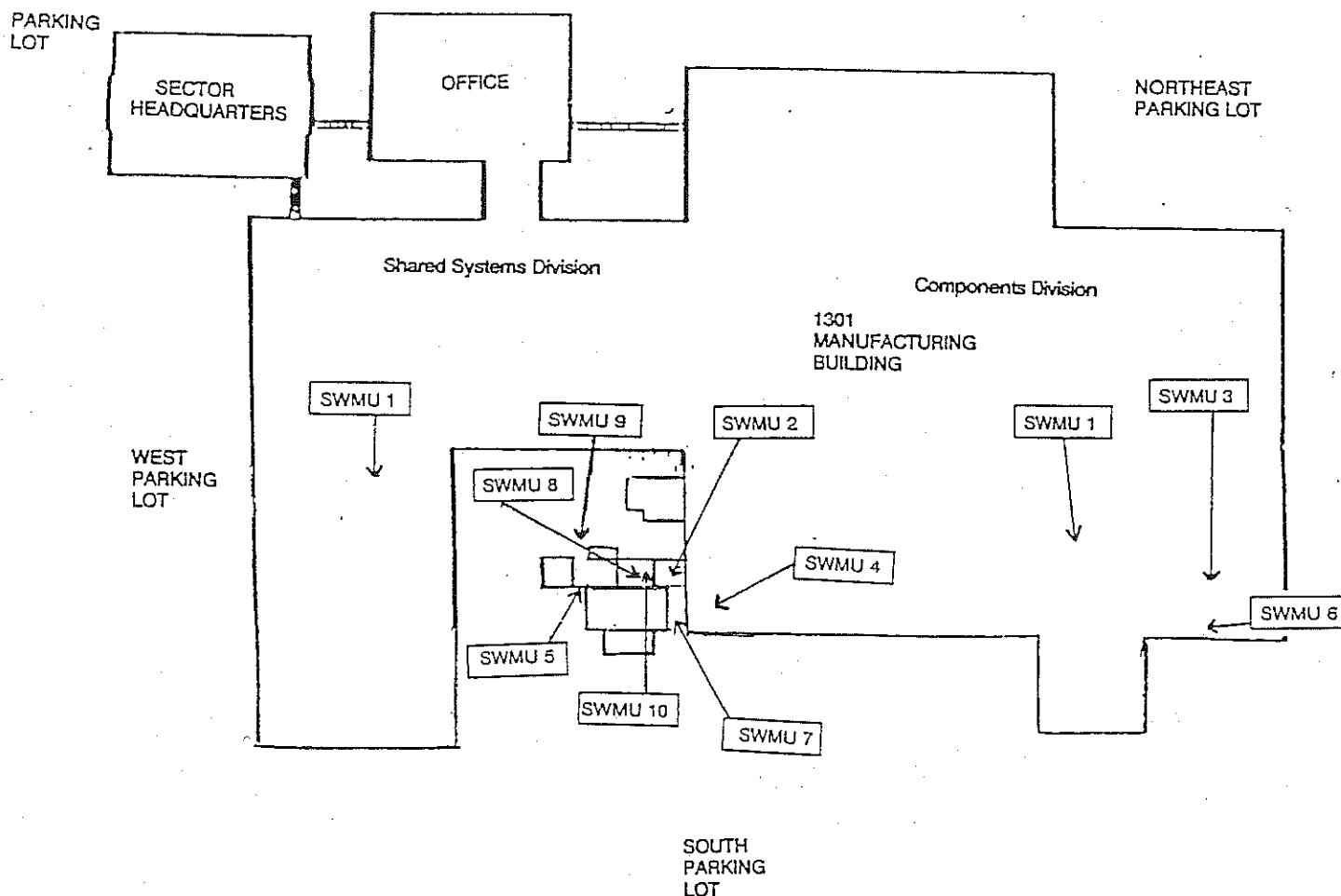
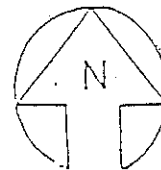
The primary waste streams generated at the Motorola facility are spent TCA (F001); spent methanol (F003); waste methanol-contaminated rags (F003); waste combustible liquids such as terpene (D001) and D-limonene (D001); waste kerosene sludge (D001) and waste kerosene sludge contaminated with Freon (F001); waste ethylene glycol (D001); waste flammable liquid solvent mixture of isopropanol (D001), acetone (F003), and toluene (F005); waste soldering dross (D008); waste flammable and non-flammable aerosol cans (D001); corrosive wastes such as waste hydrochloric acid (D002), waste nitric acid (D002), and waste aqua regia (D002); waste chromic acid (D002, D007); rinsewaters and waste plating solutions (D002); wastewater treatment sludge (F006); waste oil (D001); contaminated ground water possibly containing spent TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001); waste N-methyl pyrrole (D002); waste flux

TABLE 1
SOLID WASTE MANAGEMENT UNITS

<u>SWMU Number</u>	<u>SWMU Name</u>	<u>RCRA Hazardous Waste Management Unit^a</u>	<u>Status</u>
1	Satellite Accumulation Areas	No	Active
2	Hazardous Waste Storage Area	No	Active
3	Grit Cone Accumulation Area	No	Active
4	PCB Accumulation Area	No	Active
5	Solid Waste Drum Storage Area	No	Active
6	Wastewater Treatment System	No	Active
7	Ground Water Remediation Unit	No	Active
8	Former Container Storage Area	Yes	Inactive, RCRA closed in July 1988
9	Former Waste Solvent UST	Yes	Inactive, RCRA closed in February 1987
10	Former "Oil House" Sump	No	Inactive, not used since 1988

Note:

^a A RCRA hazardous waste management unit is one that currently requires or formerly required submittal of a RCRA Part A or Part B permit application.



Solid Waste Management Units (SWMU)

1. Satellite Accumulation Areas
2. Hazardous Waste Storage Area
3. Grit Cone Accumulation Area
4. PCB Accumulation Area
5. Solid Waste Drum Storage Area
6. Wastewater Treatment System
7. Ground Water Remediation Unit
8. Former Container Storage Area
9. Former Waste Solvent Underground Storage Tank
10. Former "Oil House" Sump

Motorola, Inc.
Schamburg, Illinois

Figure 2
FACILITY LAYOUT



Resource Applications, Inc.

Scale: 1" = 300'

Source: Modified from Motorola, 1992c

**TABLE 2
SOLID WASTES**

<u>Waste/EPA Waste Code^a</u>	<u>Source</u>	<u>Solid Waste Management Unit</u>
Spent TCA/F001	Degreasing operations	1, 2, 8, 9, and 10
Spent Methanol/F003	Parts cleaning/ degreasing operations	1, 2, 8, and 9
Waste Methanol-Contaminated Rags/F003	Parts cleaning/ degreasing operations	1 and 2
Waste Terpene/D001	Cleaning operations	1 and 2
Waste D-Limonene/D001	Cleaning operations	1 and 2
Waste Kerosene Sludge/D001	Quartz cutting, milling, polishing	1 and 2
Waste Kerosene Sludge Contaminated With Freon/F001	Quartz cutting, milling, polishing	1 and 2
Waste Ethylene Glycol/D001	Quartz cutting	1 and 2
Waste Flammable Liquid Solvent Mixture Containing Isopropanol (D001), Acetone (F003), and Toluene (F005)	Preparation of printed circuit boards	1, 2, 8, 9, and 10
Waste Soldering Dross/D008	Soldering operations	1 and 2

Notes:

^a Not applicable (NA) designates nonhazardous waste.

^b Waste stream no longer generated by the facility.

TABLE 2 (continued)

SOLID WASTES

Waste/EPA Waste Code ^a	Source	Solid Waste Management Unit
Waste Flammable/Non-Flammable Aerosol Cans/D001	Hand-finishing operations	1 and 2
Waste Nitric Acid/D002	Quartz cleaning operations	1, 2, 6, and 8
Waste Hydrochloric Acid/D002	Quartz cleaning operations	1, 2, 6, and 8
Waste Aqua Regia/D002	Metal dissolving operations	1, 2, 6, and 8
Spent Chromic Acid/D002, D007	Plating operations	6 and 8
Rinsewaters, Waste Plating Solutions/D002	Plating and metal finishing operations	6
Wastewater Treatment Sludge/F006	Wastewater treatment system	6
Waste Oil/D001	Vehicle and machine maintenance	1 and 2
Contaminated Ground Water Possibly Containing TCA (F001), Acetone (F003), Toluene (F005), and Methylene Chloride (F001)	Oil House Release	7

Notes:

^a Not applicable (NA) designates nonhazardous waste.

^b Waste stream no longer generated by the facility.

TABLE 2 (continued)

SOLID WASTES

Waste/EPA Waste Code ^a	Source	Solid Waste Management Unit
Waste N-Methyl Pyrole/D002	Quartz cleaning operations	1 and 2
Medical Wastes/NA	Health services	1 and 2
Waste Flux Thinner/Ink Solvents/D001	Printing operations	1 and 2
PCBs/NA	Fluorescent light ballasts	4 and 5
Nonhazardous Grit/NA	Quartz crystal cutting, and polishing operations	3 and 5
Spent Freon/F001 ^b	Degreasing operations	8
Spent Methylene Chloride/F001 ^b	Degreasing operations	8, 9, and 10

Notes:

^a Not applicable (NA) designates nonhazardous waste.

^b Waste stream no longer generated by the facility.

thinner/ink solvents (D001); medical wastes; waste PCBs (ballasts); and a nonhazardous waste grit. Wastes generated in the past but which are no longer generated include spent Freon (F001) and spent methylene chloride (F001).

Motorola conducts various degreasing and parts cleaning operations within the Components and Shared Systems Divisions. Spent TCA (F001) and spent methanol (F003) are generated from the degreasing of quartz crystals and cleaning soldered components. Generated at a rate of about 200 gallons per month, the wastes are initially managed in SWMU 1 (in 5-, 15-, and 55-gallon containers) before being transferred to SWMU 2. Safety-Kleen Envirosystems (SKE), of Dolton, Illinois, picks up the wastes for recycling and fuel blending purposes. In the past, spent TCA (F001) was managed in SWMUs 8, 9, and 10. When stored in SWMU 8, the waste was held primarily in 55-gallon drums and then transferred to SKE for disposal or reclamation. Spent TCA (F001) was also held in the Former Waste Solvent UST (SWMU 9) before being reclaimed by Chem-Clear of Chicago, Illinois. Spent TCA (F001) which migrated to on-site soils from SWMU 10 (see Section 2.4 for more detail) was pumped out via a Dense Non-Aqueous Phase Liquid (DNAPL) system. SKE then picked up this waste for disposal or reclamation purposes. Spent methanol (F003) was formerly stored in SWMU 8, primarily in 55-gallon drums, before being taken to unspecified off-site facilities. This waste was also stored in the Former Waste Solvent UST (SWMU 9) and was reclaimed by Chem-Clear upon the removal of the unit in 1985.

Waste methanol-contaminated rags (F003) are generated during the quartz cutting process. The rags are used to wipe off excess methanol solvent used for degreasing the crystals. The rags are managed in SWMU 1 in various-sized containers (5-, 15-, and 55-gallon drums) before being transferred to SWMU 2. The waste is then picked up by Rollins Environmental Services, Deer Park, Texas (Rollins) for disposal. Waste methanol-contaminated rags are generated at an approximate rate of one 55-gallon drum per month.

The facility generates waste combustible liquids such as waste terpene (D001) and waste D-limonene (D001) in the process of cleaning printed circuit boards. This waste is picked up by SKE for fuel blending and recycling purposes. Each of these wastes are generated at an approximate rate of 10 to 20 gallons per month and are managed initially in SWMU 1. Waste terpene (D001) and waste D-limonene (D001) are collected in various sized containers (5- and 15-gallon drums) within

SWMU 1. Prior to being picked up by SKE, the wastes are moved to SWMU 2 and stored in 55-gallon drums.

Waste kerosene sludge (D001) and kerosene sludge contaminated with Freon (F001) are generated from the facility's quartz crystal cutting, polishing, and milling (crushing) operation. The waste stream produced is a solid/sludge from the cutting, polishing, and milling of the crystals. The solid material is unpumpable and consists primarily of quartz debris and kerosene. Some of this sludge is accumulated in drums that previously contained Freon, resulting in further contamination. This waste, generated at a rate of 220 gallons annually, is picked up by SKE for disposal. It accumulates in various sized containers (5- and 15-gallon drums) within SWMU 1 and is then transferred to SWMU 2 where the sludge wastes are kept in 55-gallon drums prior to disposal.

Waste ethylene glycol (D001) is also generated from the process of cutting the quartz crystals. The waste stream produced is liquid in form, and is pumpable. The waste consists of minimal quartz debris and ethylene glycol. Initially, waste ethylene glycol (D001) is collected in various sized containers (5- and 15-gallon drums) within SWMU 1 before being transferred to SWMU 2, where it is stored in 55-gallon drums. SKE then picks up this waste for disposal. Waste ethylene glycol (D001) is generated at an approximate rate of 50 gallons per year.

A waste flammable liquid solvent mixture of spent isopropanol (D001), acetone (F003), and toluene (F005) is generated during the surface preparation of printed circuit boards prior to wave soldering operations. A flammable flux is applied to the boards before soldering. This waste accumulates in various sized containers (5- and 15-gallon drums) in SWMU 1 and is then transferred to SWMU 2 for storage, where it is held in 55-gallon drums. SKE picks up the waste for disposal. The waste is generated at a rate of 150 gallons per month. This mixture of wastes was also managed in SWMU 8 in the manners described above. From SWMU 8, the wastes were picked up by SKE for disposal. The waste solvent mixture was also stored in SWMU 9 and reclaimed by Chem-Clear of Chicago, Illinois, upon the unit's removal in 1985. The waste solvent mixture managed in SWMU 10 migrated to the on-site soils (see Section 2.4 for more details), from which it was then pumped out using the DNAPL system and transferred to Rollins.

In the soldering process, a waste soldering dross (D008) is generated. This dross, which

contains lead, is reclaimed and reused by Motorola. Occasionally, the dross becomes too heavily contaminated from the lead solder and is rendered useless. The dross is then "dumped" into molds and dried. Initially, the waste soldering dross (D008) is managed in SWMU 1 in lined metal containers. The resulting blocks are taken to SWMU 2 and stored as ingots on pallets. United Refinery, Chicago, Illinois, picks up this waste for recovery and disposal. In 1991, Motorola generated about 1,000 pounds of this waste.

The facility also generates flammable and non-flammable waste aerosol cans (D001) from its hand finishing operations. The aerosol-contaminated cans, generated at a rate of 60 gallons per year, are accumulated in SWMU 1 as lab packs in 55-gallon drums. The drums are then stored in SWMU 2 prior to being picked up by Rollins for disposal.

Nitric acid and hydrochloric acid are applied to crystals as cleaning agents. Spent nitric acid (D002) and spent hydrochloric acid (D002) are generated from quartz cleaning operations. Each waste corrosive acid is collected in various sized containers (5- and 15-gallon drums) in SWMU 1. From SWMU 1, the waste acids are transferred to SWMU 2 or SWMU 6. In SWMU 2, the waste is held in 55-gallon polyethylene drums prior to being picked up by Rollins for disposal. Waste that is managed in SWMU 6 undergoes on-site treatment. Both acids were formerly managed in SWMU 8 in 55-gallon polyethylene drums. From SWMU 8, the corrosive wastes, each generated at a rate of 20 to 30 gallons per year, were transferred to Rollins for treatment.

Another corrosive waste generated is waste aqua regia (D002), a mixture of nitric and hydrochloric acids. This mixture is used to dissolve metal. This waste, generated at an approximate rate of 5 gallons per month, is collected in various sized containers (5- and 15-gallon drums) in SWMU 1 and managed in 55-gallon polyethylene drums in SWMU 2. From SWMU 2, an unspecified off-site facility picks up the waste for disposal. Some of the waste aqua regia (D002) is introduced from SWMU 1 into SWMU 6 for on-site treatment. In the past, this waste was also stored in 55-gallon polyethylene drums in SWMU 8 before being taken for off-site treatment by Rollins.

Spent chromic acid (D002, D007), rinsewaters (D002), and waste plating solutions (D002) are generated during the plating process at Motorola. The acid is used to strip away excess plating material. The acid undergoes reduction in the Wastewater Treatment System (SWMU 6), and the

resulting rinsewaters are managed in the flow-through system of SWMU 6. Rinsewaters and plating solutions are generated at a rate of 37.4 million gallons per year. In the past, waste chromic acid (D002, D007) was stored in SWMU 8 in 55-gallon polyethylene drums prior to being picked up by Rollins for treatment.

All wastewaters (corrosive liquids, plating solutions) generated from Motorola's operations are pretreated in the Wastewater Treatment System (SWMU 6). Wastewater treatment sludge (F006) is generated at a rate of 8 cubic yards per year and is collected into 1-cubic yard tyvek bags. The bagged waste is picked up by Envirite Corporation of Harvey, Illinois, for treatment.

Waste oil (D001) is generated from the facility's vehicle and machine maintenance operations. Oil used for operating the facility's forklifts and compressors becomes spent and is then managed in 55-gallon steel drums in SWMU 1. The waste oil generated is not a hazardous waste but is listed as such so that SKE will accept it for disposal purposes. Prior to disposal, the waste oil is stored in SWMU 2. Generated at a rate of about 1,000 pounds per month, SKE picks up the waste for recycling purposes.

Waste solvents from contaminated ground water were generated due to a release of waste solvents from the Former "Oil House" Sump (SWMU 10). Waste TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001) were held inadvertently and therefore managed by SWMU 10. The waste solvents were recovered (exact quantity unknown) and reclaimed by SKE. Ground water monitoring wells were installed as part of a remediation project for the contaminated area. Samples drawn from these wells were treated/managed in the Ground Water Remediation Unit (SWMU 7). After treatment, ground water ultimately discharges to the sanitary sewer of MWRDGC. SWMU 7 operates on a continuous basis and samples are treated periodically. However, no quantity of treated samples was provided in files or interviews with facility representatives.

Motorola uses N-methyl pyrole (D002) as a cleaning agent for its crystals. The waste material is contaminated with acids also used in the process of cleaning the crystals. Waste N-methyl pyrole is lab packed in various-sized containers (5- and 15-gallon drums) and is transferred from SWMU 1 to SWMU 2. Rollins picks up this waste for disposal. Waste N-methyl pyrole (D002) is generated at an approximate rate of 30 to 50 gallons annually.

Various types of wastes are accumulated, lab packed, and managed in various-sized containers (boxes, pails, 5-, 15-, and 55-gallon drums) in SWMU 1. These wastes include medical wastes, generated from health services at an approximate rate of 30 pounds per month, and waste flux thinner/ink solvents (D001), generated from soldering and print shop operations at an approximate rate of 60 gallons per year. Lab packs are stored in SWMU 2 in containers (mentioned above) before Rollins takes them for disposal.

Waste polychlorinated biphenyls (PCBs) are accumulated in 55-gallon drums in SWMU 4 and transferred to SWMU 5 for storage. The waste originates from fluorescent light ballasts used by Motorola. Rollins picks up the waste for disposal. Waste PCBs are generated at an approximate rate of 30 to 35 55-gallon drums per year.

The facility generates a nonhazardous grit waste in the process of cutting and polishing quartz crystals. The grit is applied as a lapping compound and is managed in SWMU 3, which acts as a filter or settling chamber. The waste is dewatered and discharged into a steel 55-gallon drum. From there, the closed drum of waste is stored in SWMU 5 before Browning-Ferris Industries (BFI) of Zion, Illinois, picks it up for disposal. No rate of generation for this material was provided by facility representatives nor was there a rate provided within IEPA and EPA files.

In the past, Motorola used Freon and methylene chloride for degreasing purposes but no longer does so. Spent Freon (F001), which was generated at an approximate rate of 800 gallons per year, was formerly managed in SWMU 8, primarily in 55-gallon drums. This waste was then picked up for disposal SKE. Spent methylene chloride (F001) was formerly managed in SWMU 8 in 55-gallon drums before being transferred to SKE. Also, spent methylene chloride (F001) was stored in SWMU 9 and reclaimed by Chem-Clear of Chicago, Illinois, upon the tank's removal in 1985. This waste was also managed in SWMU 10, from which it then migrated to on-site soils (see Section 2.4 for more detail). From there this waste was pumped out using the DNAPL system and reclaimed by SKE. Facility representatives were unable to provide a rate of generation for waste methylene chloride and it is unknown exactly when the company stopped using methylene chloride. Since October, 1991, Motorola stopped using Freon as a degreaser.

2.4 HISTORY OF DOCUMENTED RELEASES

This section discusses the history of documented releases to ground water, surface water, air, and on-site soils at the Motorola facility in Schaumburg, Illinois.

On October 5, 1983, Motorola had an accidental chemical release at its Schaumburg facility. The suspected chemical involved was an unspecified floor cleaning compound. The company estimated that 1 quart of this material was accidentally released into a storm drain that feeds into an unlined open drainage ditch. This drainage ditch discharges to one of Motorola's two on-site retention ponds. The storm drain where the release occurred was on the south side of the facility. Four dead fish were found in the area of the open drainage ditch where the floor cleaning compound supposedly entered. Motorola reported the release to the Illinois Emergency Service and Disaster Agency (IESDA) via an emergency response number and also notified IEPA of the incident. Subsequent actions taken by the company included the posting of "No Dumping" signs near all storm drains and the issuance of instructions to outside janitorial services not to discard materials into storm drains. According to an October 18, 1983 letter from Motorola to IEPA, an IEPA official determined that, due to the small amount of chemicals involved and the conscientious actions taken by Motorola in reporting the spill, the matter was resolved (Motorola, 1983).

During the excavation and removal of the Former Waste Solvent UST (SWMU 9) on December 20, 1985, 25 to 30 cubic yards of backfill (excavated soil) were contaminated with the contents of the tank. Samples of the backfill and excavated area were collected and analyzed for levels of TCA (F001), acetone (F003), toluene (F005), methylene chloride (F001), and isopropanol (D001). Concentrations of these solvents were found to be well below EPA maximum contaminant levels for all samples taken. Also, analyses for volatile organic compounds revealed concentrations below 10 ppm, indicating the absence of hazardous levels of contamination in the backfill and excavated area (IT Corporation, 1986). The backfill was subsequently collected and disposed of at an unspecified nonhazardous solid waste landfill and the excavated area was filled and repaved. IEPA approved the closure of SWMU 9 on February 18, 1987 (IEPA, 1987a).

On September 8, 1987, a fire in the area of the company's plating facility occurred. The probable cause of the fire was an electric heater that was inadvertently left on. The heater apparently

melted and then ignited a plastic tank, which held an estimated 10 gallons of sodium cyanide plating solution. The emanating heat set off two automatic sprinkler heads which within a reported 20 minutes, released 1,200 gallons of water. The resulting solution of water mixed with the contents of the flamed tank was contained by the fire department. Other regulatory agencies that were notified were: Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), the Illinois State Police Hazardous Materials Spill Team, IEPA, and IESDA (IEPA, 1987b). Initially it was believed that the resulting solution entered a drain located in the plating room. However, according to facility representatives, the drain was discovered to have been plugged sometime shortly after the facility was constructed. Therefore, no material escaped nor was there a release of the subject material. Personnel from Motorola's Environmental and Safety Division then used wet/dry vacuum cleaners to collect approximately 1,200 gallons of water, which was then treated through the company's on-site Wastewater Treatment System (SWMU 6). Sample analysis of the treated wastewater was performed and the results were provided to RAI by Motorola (Motorola, 1992b).

On March 21, 1988, Motorola was informed by its consultants, Environmental Resources Management, Inc., (ERM) that approximately 1,000 pounds of waste solvents (TCA, acetone, toluene, and methylene chloride) had been released into the soil beneath an area of the facility known as the Oil House (Motorola, 1988b). The Oil House, which is Motorola's current Hazardous Waste Storage Area (SWMU 2), was used for the storage of raw materials and spent chemicals (spent chemicals included: toluene, methylene chloride, and TCA). Based on discussions with Motorola personnel, the release appears to have occurred over a period of a number of years. The periodic use of waste TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001) to clean the floor of the Oil House caused liquid residuals to drain into a 2-foot by 2-foot concrete floor sump (SWMU 10) and then ultimately to migrate beneath a floor slab onto on-site soils. Oral notification of the incident was made on March 22, 1988, when Motorola contacted the National Response Center, IESDA, and the Schaumburg Fire Department (Motorola, 1988b). On June 30, 1988, Motorola met with IEPA to discuss a cleanup project, including ground water monitoring well construction. The company then retained ERM to develop a work plan to identify the nature of contamination. The plan was submitted in August 1988 and subsequently approved by IEPA. Results of ground water sampling in November 1988 showed that spent TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001) had made their way into the granular backfill of an underground fire protection tank located to the south of the Oil House. Shallow monitoring wells

were installed to monitor ground water contamination. Deep monitoring wells were installed to monitor the glacial till aquifer. Samples from the wells showed that concentrations of TCA, acetone, toluene, and methylene chloride were found to be well below EPA drinking water standards. In order to recover the accumulated solvent from the backfill of the fire protection tank, an interim Dense Non-aqueous Phase Liquid (DNAPL) System was installed. Approximately 2,000 gallons of solvent were recovered from the subsurface and transferred off site to SKE for reclamation (Motorola, 1992a). The reason for the discrepancy between the amount released and amount recovered is not known. Motorola then installed a Ground Water Remediation Unit (SWMU 7) to contain the contamination plume and to remediate ground water. The unit, located to the south of the current Hazardous Waste Storage Area (SWMU 2), consists of a solvent/water separator, an air stripper, and a solvent storage tank. An operating permit for the air stripper was issued to Motorola by IEPA on March 5, 1990. The complete system was activated on April 12, 1990. Motorola indicated that after the free phase solvent has been completely removed, it would begin soil remediation and cleanup (IEPA, 1988b, Motorola, 1992a).

On August 11, 1989, an estimated 500 gallons of product No. 2 Fuel Oil were released from a 2,000-gallon capacity UST located northwest of the facility (IEPA, 1989). IEPA and IESDA were notified of the incident on November 17, 1989. The tank was removed in December 1989 as the facility decided it no longer needed the tank for storage purposes. A copy of the notification for tank removal (EPA Form 7530-1) was sent to the Illinois State Fire Marshal. The date of this notification was not specified. Ground water and soil samples collected from the resulting excavation were analyzed for levels of total petroleum hydrocarbons (TPH) and ignitability characteristics. All samples were found to have contained TPH concentrations below detection limits and flash points of greater than 200 degrees Fahrenheit (°F) (Motorola, 1990b). According to facility representatives, the Illinois State Fire Marshall approved the removal of the former tank.

On January 19, 1990, another documented release occurred at the Motorola facility. The release originated from a 13,000-gallon aboveground, concrete holding tank located in the basement of the company's MIS Building. The material released was a solution consisting of 41,600 gallons of water and 2.5 gallons of Cooling Water Treatment 171 (CWT), a product manufactured by Erickson Chemical Company. The solution was used in the company's cooling system. The volume of the solution was managed in both the aboveground tank and a condenser water system, which held the

majority of the solution. CWT contained 32 percent sodium bichromate, 6 percent zinc sulfate, 3 percent sulfuric acid, and 59 percent water by weight. The release, a seepage of material to the subsurface, occurred over a 2-day period and was reported to the National Response Center, IESDA, and the Cook County Emergency Service and Disaster Agency on January 26, 1990. The incident was given an IESDA Incident Identification Number 900248 and a National Response Center Number 1931 (IEPA, 1990). With approximately 1 foot of liquid remaining in the tank, it was calculated that 11,500 gallons of the CWT solution had escaped. The on-site areas suspected of contamination were the area near the release (under the basement of the MIS Building), an underground section of the storm drainage system, and a section of a southwest flowing open drain channel. It was suspected that ground water beneath the MIS Building had been impacted by the release. Remedial actions involved pumping the storm sewer water and disposing of it at Envirite Corporation. Subsequent ground water sampling and analyses for chromium contamination indicated that chromium concentrations around the affected area were well below the 0.05 parts per million (ppm) detection level. Water samples from a storm sewer manhole near the MIS Building and from open drainage channels were collected. However, analytical results demonstrated that the release did not contribute enough material to produce significant detectable chromium concentrations. The tank was resealed and repaired on January 27, 1990. Furthermore, Motorola then installed a 0.375-inch-thick rubber liner inside the tank. In a February 9, 1990 letter to IESDA, Motorola indicated that the use of CWT was a one time occurrence and that the company currently does not use chromium-containing additives in its cooling system (Motorola, 1990a). A June 26, 1990 conciliation agreement between Motorola and MWRDGC indicated that compliance regarding the CWT release was achieved and has been maintained since January 31, 1990 (Motorola, 1990c).

2.5 REGULATORY HISTORY

Motorola submitted a Notification of Hazardous Waste Activity form to EPA on August 7, 1980, designating itself as a generator, transporter, and treatment, storage, or disposal (TSD) facility (Motorola, 1980a). A subsequent notification was submitted by Motorola on August 20, 1980, designating the company as a TSD facility only (Motorola, 1980b). A RCRA Part A permit application was submitted by Motorola on November 18, 1980, listing D001, D002, F001, F003, and F005 wastes. The permit indicated that D001, D002, and F001 wastes were managed in a 2,500-gallon capacity container storage area (S01) (referring to SWMU 8), while D001, F001, F003 and

F005 wastes were managed in a 6,000-gallon storage tank (S02) (referring to SWMU 9) (Motorola, 1980c). According to documents in IEPA files, Motorola's S01 unit managed wastes which were characteristically ignitable (D001) and corrosive (D002), as well as spent degreasing solvents (F001) and spent plating bath solutions (D002). Documents indicated that the S02 unit was used for storing spent chlorinated solvents (D001, F001, F003, F005). According to the Part A permit application, 140,000 pounds of waste chlorinated solvents were estimated as being generated over the course of a year. In addition, 28,000 pounds of D001 waste, 17,000 pounds of D002 waste, and 144,000 pounds of F001 waste were estimated as being generated and stored in S01 storage during the course of a year.

Closure activities for Motorola's S01 and S02 units followed as Motorola wished to obtain status as a generator only. On January 16, 1986, a closure plan for Motorola's Former Waste Solvent UST (SWMU 9) was approved by IEPA (IEPA, 1986a). On June 12, 1986, an inspection by IEPA revealed that closure activities regarding SWMU 9 were performed in accordance with the approved closure plan (IEPA, 1987a). In a February 18, 1987 letter from IEPA to Motorola, the unit was approved closed and the corresponding modifications were made to Motorola's RCRA Part A permit application (IEPA, 1987a). On March 17, 1988, Motorola's closure plan (Motorola, 1988a) for its Former Container Storage Area (SWMU 8) was approved by IEPA (IEPA, 1988a). IEPA inspected the facility on July 13, 1988 and found that closure was completed in accordance with the approved plan. In a July 26, 1988 letter from IEPA to Motorola, SWMU 8 was officially approved closed and IEPA withdrew Motorola's RCRA Part A permit application and changed the company's status to generator only from TSD (IEPA, 1988c). As of July 26, 1988, Motorola has been required to meet standards applicable to large-quantity generators of hazardous waste. Currently, Motorola is a large- quantity generator of hazardous waste and stores hazardous wastes on site for less than 90 days.

Past inspections of Motorola have shown the facility to be in compliance with RCRA regulations set for generators and TSDs. A March 26, 1982 Interim Status Standards (ISS) Inspection by IEPA revealed an extremely well maintained facility that was in compliance with the applicable RCRA regulations (IEPA, 1982a, 1982b). On July 13, 1982, another ISS Inspection was performed by IEPA in order to verify that Motorola had submitted its emergency response contingency plans (IEPA, 1982c). At the time of this inspection, general RCRA compliance for TSDs and generators

was observed. Motorola was again found to be in compliance with generator requirements during a November 25, 1986 ISS Inspection conducted by IEPA (IEPA, 1986b). No other inspection reports were included within the compiled Preliminary Assessment files for Motorola.

Motorola currently holds an operating IEPA air permit. This permit, with Identification Number 031282 AAN, covers emission sources in Motorola's Electronic Component Production and Assembly Operations. The permit was issued on May 5, 1992 and expires on March 2, 1995 (IEPA, 1992d). The company was also issued three construction permits allowing it to install emission sources and/or air pollution control equipment consisting of convection reflow ovens and a hand soldering line and hood. These construction permits were granted to Motorola in April 1992 (IEPA, 1992a, 1992b, 1992c). The facility has no history of air permit violations and there is no history of odor complaints from area residents.

Motorola was issued a Construction Permit (No. 1986-EE-0406-2) by IEPA, allowing it to construct water pollution control facilities (additions to SWMU 6). The permit, issued on June 2, 1992, was a revision of two previously IEPA-approved construction permits of 1986 and 1988 (IEPA, 1992e).

Motorola currently has four USTs on site. Two 1,000-gallon capacity tanks, which were installed in 1988, are located at the southeast corner of the facility's "1305" Building and two 2,000-gallon capacity tanks, which were installed in 1989, are situated on the southeast corner of the MIS Building. All four tanks are used to store diesel fuel for the company's various lines of equipment. All of the tanks are connected to separate detection alarm systems and are composed of fiberglass. There is secondary containment in the form of a double wall for each of the four tanks. There have been no documented releases from the four diesel fuel USTs. In addition to the four current USTs, Motorola had a 6,000-gallon Former Waste Solvent UST (SWMU 9) that was RCRA closed on February 18, 1987, and a former 2,000-gallon diesel fuel UST that was removed in December 1989. Documented releases from these two former tanks have occurred in the past. A complete history and discussion on these tanks was provided earlier in Section 2.4 of this report.

Motorola is currently in the process of obtaining a National Pollutants Discharge Elimination System (NPDES) Permit for stormwater discharge to MWRDGC.

There has been no CERCLA (Superfund) Activity at Motorola's Schaumburg facility.

2.6 ENVIRONMENTAL SETTING

This section describes the climate; flood plain and surface water; geology and soils; and ground water in the vicinity of Motorola facility.

2.6.1 Climate

The climate in Cook County is continental, with wide variations in temperature between summer and winter. The average daily temperature is 49.2°F. The lowest average daily temperature is 21.4°F in January. The highest average daily temperature is 83.3°F in July (NOAA, 1990).

The total annual precipitation for Cook County is 33.3 inches. The mean annual lake evaporation for the area is about 29 inches (USDC, 1968). The 1-year, 24-hour maximum rainfall is 9.35 inches. Precipitation is somewhat evenly distributed throughout the year, with slightly more falling in the spring and summer (NOAA, 1990).

The prevailing wind is from the west. Average wind speed is highest in April at 12.0 miles per hour.

2.6.2 Flood Plain and Surface Water

The Motorola facility is located in a Zone C flood plain, indicating that it lies in an area of minimal flooding outside the 500-year flood plain (FEMA, 1982).

The nearest surface water body is a tributary to Salt Creek, located approximately 0.25 mile northwest of the facility. The tributary is used for drainage purposes, while Salt Creek is used for recreational and drainage purposes. The creek discharges to Busse Lake which ultimately discharges to the Des Plaines River. Surface water runoff from the Motorola facility would flow into the MWRDGC sewer system.

2.6.3

Geology and Soils

Site-specific soil information is available for the Motorola facility. Soils at the facility have been altered due to the construction of the facility. Soils are reported to consist of artificial fill material overlying a gray clayey till. The soils are reported to be urban land on the facility, mostly covered with buildings, streets, and parking lots (USDA, 1978). The till is the Palatine Moraine Unit of the Valparaiso Morainal System, and is composed of glacial drift from the Wadsworth till member of the Wedron formation. This material typically consists of gray clayey and silty clay till with black shale present as pebbles in the material (IT Corporation, 1986). The thickness of the glacial material is approximately 100 to 150 feet in the vicinity of the facility (Willman, 1971).

Site-specific information on bedrock is not available, so regional information is presented here. Bedrock formations beneath the site consist mainly of Silurian age dolomite, sandstone, and shale. These deposits are approximately 500 feet thick. The Silurian formations overlie shales and limestones of the Ordovician Maquoketa Group, which is about 250 feet thick. Beneath the Ordovician Maquoketa Rocks, are dolomites of the Galena-Platteville Group, sandstones of the Ancell (Glenwood-St. Peter) Group, and sandstones and dolomites of the Prairie du Chien Group. Beneath the Ordovician Rocks are sandstones, siltstones, and dolomites of Cambrian Age. Beneath the layered sedimentary rocks, Precambrian crystalline rocks form a relatively impermeable basement at depths of 3,000 to 5,000 feet below the surface (Suter, 1959).

2.6.4

Ground Water

Although ground water monitoring wells were installed to monitor contamination from a release from the former "Oil House," no site-specific ground water information for the Motorola facility was available within the file or from facility representatives. Therefore, regional ground water information is presented here. Ground water in northeast Illinois exists in four major aquifer systems. The systems, in order of descending depths, are: the glacial drift system, the shallow bedrock system, the Cambrian-Ordovician system, and the Mt. Simon system (Willman, 1971). The Village of Schaumburg obtains its drinking water from Lake Michigan.

In the shallow unconsolidated deposits of the glacial drift system, lateral flow is generally dependent upon the local topography which has been modified by urban development. Ground water flow is generally towards the nearest surface water body, which in this case is Salt Creek located northwest of the facility (Suter, 1959).

The shallow bedrock aquifer consists mainly of Silurian dolomite. This dolomite is typically 100 feet thick and occurs at a depth of 100 feet. Movement within the Silurian dolomite occurs in joints, fissures, solution on cavities, and bedding plane openings. Regional ground water movement and recharge within the Silurian system of northeastern Illinois tends to be from the northwest towards the southeast (Suter, 1959).

The deep bedrock aquifer systems, comprised mainly of sandstone and dolomite, include the Cambrian-Ordovician and Mt. Simon aquifer systems, which occur at depths of over 1,000 feet. The major aquifers in the deep systems are the Glenwood-St. Peter, Ironton-Galesville, and Mt. Simon Sandstones. Recharge to the Cambrian-Ordovician system occurs in areas of outcrop, shallow cover by glacial drift, and from leakage downward through the shallow bedrock system. Recharge to the Mt. Simon aquifer occurs from an outcrop region located in central southern Wisconsin (Willman, 1971).

2.7 RECEPTORS

The Motorola facility employs 9,500 people and occupies 325 acres in a mixed commercial and residential area in Schaumburg, Illinois. Schaumburg has a population of about 70,000 people.

The Motorola facility is bordered on the north and east sides by a residential and commercial area, on the west by a wetland area and commercial area, and on the south by the Illinois Northwest Tollway (I-90). The nearest school, Plum Grove Junior High School, is located about 1 mile northeast of the facility. Facility access is controlled by security guards and video monitoring 24 hours per day.

The nearest surface water body to the facility is a tributary to Salt Creek. This tributary is used for drainage purposes and is located about 0.25 mile northwest of the facility. Salt Creek is used for

drainage and recreational purposes, and discharges to Busse Lake, which ultimately discharges to the Des Plaines River.

Ground water is not used as a municipal water supply in the Schaumburg area. Rather, the area receives its water supply from Lake Michigan. The nearest drinking water well is located about 1 mile northeast of the facility. This well is upgradient of the facility. There are no other known wells within 3 miles of the facility.

Within a 2 mile radius, the facility is surrounded by various sensitive environments. Two on-site retention ponds at the facility's northwest and southeast boundaries have been delineated as 3-acre palustrine, open-water, permanently-flooded, excavated wetlands. Also, within about one mile to the west and southwest of the facility, there exists palustrine, emergent, seasonally-flooded, and palustrine, emergent, seasonally-flooded, partially drained wetlands. The sizes of these wetlands range from 5 to 25 acres. Within 2 miles north and northwest of Motorola, there are additional wetlands of the above-mentioned types and sizes (USDI, 1980). Approximately 2 to 3 miles southeast of the facility lies the Ned Brown Forest Preserve.

3.0 SOLID WASTE MANAGEMENT UNITS

This section describes the 10 SWMUs identified during the PA/VSI. The following information is presented for each SWMU: description of the unit, dates of operation, wastes managed, release controls, history of documented releases, and RAI's observations. Figure 2 shows the SWMU locations.

SWMU 1

Satellite Accumulation Areas

Unit Description:

The Satellite Accumulation Areas consists of many separate indoor areas located throughout the facility. These areas, where hazardous wastes are collected in various-sized containers (5- , 15- , and 55-gallon), are all underlain by an epoxy-coated, 6-inch concrete floor. Since December 1989, all of the facility's floor drains have been plugged and to the knowledge of Motorola, no floor drains exist.

Date of Startup:

This unit began operation in 1980 and different satellite accumulation areas were initiated in 1985, 1989, 1990, 1991 and 1992.

Date of Closure:

This unit is active.

Wastes Managed:

This unit manages the following wastes: spent TCA (F001); methanol (F003); waste methanol-contaminated rags (F003); waste terpene (D001); waste D-limonene (D001); kerosene sludge (D001); kerosene sludge contaminated with Freon (F001); waste ethylene glycol (D001); waste flammable liquid mixture containing isopropanol (D001), acetone (F003), and toluene (F005); waste soldering dross (D008); waste flammable/non-flammable aerosol cans (D001); waste nitric acid (D002); waste hydrochloric acid (D002); waste aqua regia (D002); waste oil (D001); waste N-methyl pyrrole (D002); medical wastes; and waste flux thinner/ink solvents (D001). In the past, the unit also managed spent methylene chloride (F001) and spent Freon (F001).

Release controls:	The accumulation areas are located on 6-inch-thick epoxy-coated concrete. Wastes were managed in closed containers. All accumulation areas were indoors. No floor drains are present.
History of Documented Releases:	No releases from this unit have been documented.
Observations:	At the time of the VSI, several different accumulation areas were viewed (see Photographs No. 9 and 10). RAI noticed no evidence of a release from this unit.

Hazardous Waste Storage Area

Unit Description: The Hazardous Waste Storage Area is located indoors, on the south side of the facility. The unit is approximately 1,600 square feet and has a 6-inch-thick epoxy-coated concrete floor. There are no floor drains in this unit.

Date of Startup: This unit began operation in 1989.

Date of Closure: This unit is active.

Wastes Managed: This unit manages the following wastes: spent TCA (F001); spent methanol (F003); waste methanol-contaminated rags (F003); waste terpene (D001); waste D-limonene (D001); kerosene sludge (D001); kerosene sludge contaminated with Freon (F001); waste ethylene glycol (D001); waste flammable liquid solvent mixture containing isopropanol (D001), acetone (F003), and toluene (F005); waste

soldering dross (D008); waste flammable/non-flammable aerosol cans (D001); waste nitric acid (D002); waste hydrochloric acid (D002); waste aqua regia (D002); waste oil (D001); waste N-methyl pyrole (D002); medical wastes; and waste flux thinner/ink solvents (D001). In the past, the unit also managed spent methylene chloride (F001) and spent Freon (F001). Wastes from this unit are ultimately transported off-site to various disposal firms for disposal (see Section 2.3).

Release Controls:

The unit is indoors and is situated on a 6-inch-thick concrete epoxy-coated floor. The area is bermed. There are no floor drains and access to the unit is controlled through a locked door.

**History of
Documented Releases:**

There have been no documented releases from this unit. However, there was a documented release from the former "Oil House" in 1988. The "Oil House" was situated at the location of the current Hazardous Waste Storage Area. For more about this release, see "History of Documented Releases" for SWMU 10, the Former "Oil House" Sump.

Observations:

During the VSI, drums (55-gallon steel and polyethylene) of the above mentioned wastes were observed. Drums were found on plastic pallets stacked two-high with four or less drums on each pallet. RAI observed many miscellaneous-sized containers (5-gallon pails, blocks, bags, and boxes) which contained the above mentioned wastes. RAI also observed drums of flammable liquid (D001), TCA (F001), waste oil (D001), and flux thinner (D001) located on the west side of the unit. These drums were used for consolidation of these types of wastes (see Photographs No. 4 and 5). RAI noticed no evidence of a release from this unit.

SWMU 3**Grit Cone Accumulation Area****Unit Description:**

The Grit Cone Accumulation Area consists of a 200-gallon flow through chamber, which serves as a holding/settling tank for the company's quartz cleaning operation, and a 55-gallon steel drum which receives the solids portion from the settling tank (see Photograph No. 11).

Date of Startup:

This unit began operation in 1989.

Date of Closure:

This unit is active.

Wastes Managed:

This unit manages a nonhazardous grit (solids) that is produced from the company's quartz cleaning process. Waste from this unit is ultimately transported to an off-site facility for disposal after temporary storage in SWMU 5 (see Section 2.3).

Release Controls:

After grit is collected in the cone and transferred to the 55-gallon steel drum, the drum is then stored indoors on top of a 6-inch-thick concrete (epoxy-coated) floor with no floor drains (SWMU 5).

**History of
Documented Releases:**

No releases from this unit have been documented.

Observations:

At the time of the VSI, no grit was observed. A closed drum was situated at the base of the Grit Cone (see Photograph No. 11). There was no evidence of a release from this unit.

SWMU 4**PCB Accumulation Area****Unit Description:**

The PCB Accumulation Area is located indoors and east of the Hazardous Waste Storage Area (SWMU 2). The unit consists of a 55-

gallon steel drum located on a wooden pallet (see Photograph No. 8). The pallet and drum sit atop a 6-inch-thick concrete floor.

Date of Startup: This unit began operation in 1989.

Date of Closure: This unit is active.

Wastes Managed: This unit manages waste PCBs. This waste is stored in SWMU 5 before ultimately being transported to an off-site facility for disposal (see Section 2.3).

Release Controls: The wastes are stored inside steel 55-gallon drums on top of 6-inch-thick concrete. Once the drum is full, it is taken and stored in SWMU 5.

History of Documented Releases: No releases from this unit have been documented.

Observations: At the time of the VSI, one drum of PCB waste was on a wooden pallet in this unit. The drum was closed. RAI noted no evidence of a release from this unit.

SWMU 5 Solid Waste Drum Storage Area

Unit Description: The Solid Waste Drum Storage Area is located indoors, in a 40-foot by 80-foot room that lies to the west of the Hazardous Waste Storage Area (SWMU 2). The room has a 6-inch-thick concrete floor that is epoxy coated. There are no floor drains in this unit.

Date of Startup: This unit began operation in 1989.

Date of Closure: This unit is currently active.

Wastes Managed: This unit manages nonhazardous grit and PCB material. These wastes are transported to various off-site facilities for disposal (see Section 2.3).

Release Controls: The wastes are stored in steel 55-gallon drums placed on plastic pallets. The pallets are stacked two-high, with four drums per pallet. The area is underlain by an epoxy-coated 6-inch-thick concrete floor. There are no floor drains in this unit.

History of Documented Releases: No releases from this unit have been documented.

Observations: At the time of the VSI, approximately 60 drums of grit and PCB waste were in the unit (see Photograph No. 2). RAI noted no evidence of release from this unit.

SWMU 6

Wastewater Treatment System

Unit Description: The Wastewater Treatment System consists of a flow-through system and a batch system, both of which are contained indoors in a 20-foot by 30-foot room located in the southwest part of the facility. The room is underlain by a 6-inch-thick epoxy-coated concrete floor. Also, the room is surrounded by a berm (approximately 6 inches high). The flow-through system consists of five 250-gallon aboveground fiberglass cylindrical tanks where precipitation and chromium reduction occur. The flow through system also contains a sand filter, clarifier, backwash reservoir, filter press, and six holding tanks for off-specifications material. A flow meter and pH meter complete the system. The batch system consists of three fiberglass 1,000-gallon cylindrical aboveground tanks. This system receives concentrated material while rinsewaters are introduced to the flow-through system (see Photograph No. 12).

Date of Startup: This unit began operation in 1986.

Date of Closure: This unit is currently active.

Wastes Managed: This unit manages waste chromic acid (D002, D007), nitric acid (D002), hydrochloric acid (D002), aqua regia (D002), rinsewaters (D002), waste plating solutions (D002), and wastewater treatment sludge (F006). The system treats 75,000 gallons of wastewater per day and ultimately discharges to the MWRDGC sanitary sewer. The sludge is filter-pressed and disposed of at an unspecified off-site facility.

Release Controls: The unit is situated in a bermed room and is on a 6-inch-thick epoxy-coated concrete floor.

History of Documented Releases: No releases from this unit have been documented.

Observations: The unit was operating at the time of the VSI and no evidence of a release was detected.

SWMU 7

Ground Water Remediation Unit

Unit Description: The Ground Water Remediation Unit is located indoors in an 8-foot by 12-foot room (south of SWMU 2) and consists of a steel solvent/water separator, an air stripper, and a steel solvent storage tank. The unit is underlain by a concrete floor and there are no floor drains in the vicinity of this unit.

Date of Startup: This unit began operation in 1989.

Date of Closure: This unit is active.

Wastes Managed: This unit manages ground water from facility grounds and handles (pumps and treats) 1,440 gallons per day. In the past, the unit managed ground water that possibly contained waste TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001). This water is then introduced into SWMU 6 and ultimately discharged to the MWRDGC sanitary sewer system. The solvents which are separated from the water are collected in 55-gallon steel drums and sent to SKE for reclamation.

Release Controls: This unit is on a concrete floor and there are no floor drains in the vicinity of the unit.

History of Documented Releases: No releases from this unit have been documented.

Observations: At the time of this VSI, no evidence of a release from this unit was observed (see Photograph No. 7).

SWMU 8 Former Container Storage Area

Unit Description: The Former Container Storage Area is located indoors, north of the current Solid Waste Drum Storage Area (SWMU 5), and is currently used by the company for storing chemical raw materials (flammable and corrosive). The unit has an epoxy-coated 6-inch-thick concrete floor and a surrounding berm (approximately 6 inches high).

Date of Startup: This unit began operation in 1980.

Date of Closure: This unit was certified RCRA closed on July 26, 1988.

Wastes Managed: The former unit was permitted to store 2,500 gallons of containerized hazardous wastes. These wastes were: spent TCA (F001), spent

methanol (F003), waste flammable liquid solvent mixture (containing isopropanol (D001), acetone (F003), and toluene (F005)), waste nitric acid (D002), waste hydrochloric acid (D002), waste aqua regia (D002), waste chromic acid (D002), spent Freon (F001), and spent methylene chloride (F001). The wastes were stored (segregated) in two diked areas which both sloped to low spots. These low spots were previously collection sumps with a capacity of 120 gallons. The sumps were filled to grade with grout in the fall of 1985. No drains were ever connected to the sumps. These wastes were ultimately transferred to various off-site facilities for disposal (see Section 2.3).

Release Controls: Wastes were stored in closed drums and containers and placed in diked areas.

History of Documented Releases: No releases from this unit have been documented.

Observations: At the time of the VSI, RAI did not detect evidence of a release from this unit. The area is now used for storage of chemical raw materials (see Photograph No. 3)

SWMU 9 Former Waste Solvent Underground Storage Tank

Unit Description: The Former Waste Solvent Underground Storage Tank was located outdoors, north of the Former Container Storage Area (SWMU 8), in a truck docking and service area. The unit was cylindrical and had a capacity of 6,000 gallons. The unit was composed of asphalt-coated steel with a thickness of 0.1875 inch. The tank, which was 8 feet in diameter and 16 feet long, was taken out of service in October 1983.

Date of Startup: This unit began operation in 1980.

Date of Closure:	This unit was removed in December 1985 and certified RCRA closed on February 18, 1987.
Wastes Managed:	This unit managed waste flammable solvents such as spent TCA (F001), spent methanol (F003), spent methylene chloride (F001), and a flammable liquid mixture containing spent toluene (F005), spent acetone (F003), and spent isopropanol (D001). Upon removal of the unit, the solvents were reclaimed by an off-site facility (see Section 2.3). The tank was sent off site to be decommissioned.
Release Controls:	The unit was removed in December 1985. Within the compiled documents, no evidence was found to suggest that this unit had release controls.
History of Documented Releases:	A release to on-site soils from this unit occurred in December 1985 during the excavation and removal of the unit. Subsequent sampling of the backfill and excavated area showed that levels of TCA (F001), acetone (F003), methylene chloride (F001), toluene (F005), and isopropanol (D001) were well below maximum contaminant levels. The backfill was disposed of at an unspecified nonhazardous solid waste landfill and the excavated area was filled and repaved. IEPA approved closure of the unit in February 1987.
Observations:	During the VSI, RAI reviewed the area where the unit was located. The area was flat concrete and there was no evidence of a release from the former unit (see Photograph No. 1).
SWMU 10	Former "Oil House" Sump
Unit Description:	The Former "Oil House" Sump was located beneath the former "Oil House" (which is now the current Hazardous Waste Storage Area,

SWMU 2). The unit was made of concrete and was 2 feet deep and 2 feet in diameter. The former "Oil House" was used for storing chemical raw materials and spent chemicals. The sump served as an emergency collection area.

Date of Startup: An exact date when this unit began operations is unknown. An estimate of this unit's startup date is 1980.

Date of Closure: This unit has been inactive since 1988, when it was crushed and filled to grade with concrete and epoxy.

Wastes Managed: This unit inadvertently managed spent TCA (F001), spent acetone (F003), spent toluene (F005), spent isopropanol (D001), and spent methylene chloride (F001). These chemicals were used in cleaning the floor of the former "Oil House." The waste solvents were collected using the Ground Water Remediation Unit (SWMU 7) and then transferred to an off-site facility (see Section 2.3).

Release Controls: The unit was destroyed and filled with concrete and epoxy. The unit had no release controls.

History of Documented Releases: On March 21, 1988, a release of TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001) to on-site soils occurred from this unit as part of the release from the "Oil House" Structure. Concentrations of the solvents in ground water samples were found to be well below drinking water standards. As part of a cleanup project with IEPA, Motorola is to perform soil vapor extractions.

Observations:

During the VSI, the former sump was not visible. RAI did view the Hazardous Waste Storage Area (SWMU 2), the area where the former sump was located. RAI noted no evidence of a release from this unit.

4.0 AREAS OF CONCERN

RAI identified no AOCs during the PA/VSI. All releases were demonstrated to have been adequately remediated (see Section 2.4).

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5.0 CONCLUSIONS AND RECOMMENDATIONS

The PA/VSI identified ten SWMUs and no AOCs at the Motorola facility. Background information on the facility's location; operations; waste generating processes and waste management practices; history of documented releases; regulatory history; environmental setting; and receptors is presented in Section 2.0. SWMU-specific information, such as the unit's description, dates of operation, wastes managed, release controls, history of documented releases, and observed condition, is presented in Section 3.0. AOCs are discussed in Section 4.0. Following are RAI's conclusions and recommendations for each SWMU. Table 3, at the end of this section, summarizes the SWMUs at the facility and the recommended further actions.

SWMU 1 Satellite Accumulation Areas

Conclusions: These areas throughout the facility are used for accumulating hazardous wastes prior to transferring them to the Hazardous Waste Storage Area (SWMU 2). The many accumulation areas are currently active and during the VSI, several were viewed (solder waste (D008), methanol (F003)). Wastes are managed indoors, in closed containers (55-gallon steel drums and other miscellaneous sized containers). The areas are situated on top of 6-inch-thick epoxy-coated concrete. No floor drains exist near the accumulation areas. Consequently, the potential for release to ground water, surface water, air, and on-site soils is low.

Recommendations: RAI recommends no further action for this unit at this time.

SWMU 2 Hazardous Waste Storage Area

Conclusions: This area is used for storing hazardous wastes for less than 90 days. The unit is located indoors and is underlain by 6-inch-thick epoxy-coated concrete. Wastes are stored in closed 55-gallon steel and polyethylene drums, as well as other miscellaneous-sized metal and plastic containers. Formerly, the area was the location of the "Oil House" and was used for storing raw materials

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and spent chemicals. The ground beneath the area was remediated due to a release of solvents from a sump within this area (SWMU 10). Details of the release are discussed in Section 2.4 and under "History of Documented Releases" for SWMU 10 in Section 3.0. Contamination to environmental media from the "Oil House" is discussed later in this section, under SWMU 10. Potential for release to ground water, surface water, air, and on-site soils from SWMU 2 is low.

Recommendations: RAI recommends that remediation activities relating to the area of the Former "Oil House" Sump (SWMU 10) continue with oversight from IEPA. RAI recommends no further action for the current Hazardous Waste Storage Area at this time.

SWMU 3 Grit Cone Accumulation Area

Conclusions: This unit is indoors and serves as an area where a nonhazardous grit is collected into a steel 55-gallon drum, which is then closed and taken to SWMU 5 for storage. The drum and cone sit atop 6-inch-thick epoxy-coated concrete and there are no floor drains present. The potential for release to ground water, surface water, air, and on-site soils is low.

Recommendations: RAI recommends no further action for this unit at this time.

SWMU 4 PCB Accumulation Area

Conclusions: This unit is located indoors and is used as a temporary storage area for PCB waste. The waste is placed into a 55-gallon steel drum and the closed drum is then transferred to SWMU 5 for storage. The closed drum is situated on a wooden pallet that is located on top of 6-inch-thick epoxy-coated concrete. There are no floor drains present. The potential for release to ground water, surface water, air, and on-site soils is low.

Recommendations: RAI recommends no further action for this unit at this time.

SWMU 5 Solid Waste Drum Storage Area

Conclusions: This unit is used for storing closed 55-gallon steel drums of PCB wastes and nonhazardous grit. The unit is located indoors and is on 6-inch-thick epoxy-coated concrete. There are no floor drains present. The potential for release to ground water, surface water, air, and on-site soils is low.

Recommendations: RAI recommends no further action for this unit at this time.

SWMU 6 Wastewater Treatment System

Conclusions: This unit is used to treat the company's wastewater prior to discharge to the MWRDGC sewer. The wastewater is managed in steel tanks located indoors on 6-inch-thick epoxy-coated concrete. There are no floor drains present. The potential for release to ground water, surface water, air, and on-site soils is low.

Recommendations: RAI recommends no further action for this unit at this time.

SWMU 7 Ground Water Remediation Unit

Conclusions: This unit is used for monitoring ground water contamination at the facility. It was set up as part of a cleanup project regarding the Former "Oil House" Sump (SWMU 10). The unit is located indoors and is underlain by a 6-inch-thick concrete floor. No floor drains exist. The potential for release to ground water, surface water, air, and on-site soils is low.

Recommendations: RAI recommends no further action for this unit at this time.

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SWMU 8

Former Container Storage Area

Conclusions:

This unit was used for storing hazardous wastes of codes D001, D002, F001, and F007. The unit consisted of two diked areas where wastes were stored in various closed containers. The unit is now used for storage of chemical raw materials and is located on 6-inch-thick epoxy-coated concrete. The area is bermed (approximately 6 inches) for secondary containment. No floor drains exist. The unit was RCRA closed in March 1988. No past documented releases occurred from this unit. The past potential for release to ground water, surface water, air, and on-site soils was low.

Recommendations:

RAI recommends no further action for this unit at this time.

SWMU 9

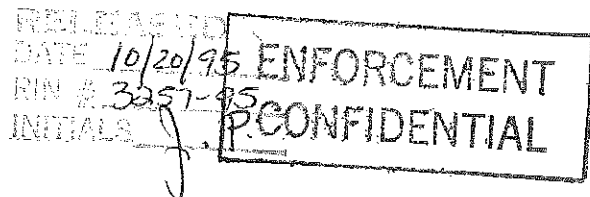
Former Waste Solvent Underground Storage Tank

Conclusions:

This unit was used for storing flammable, chlorinated waste solvents. The unit was a steel cylindrical tank that was removed and decommissioned in December 1985. A release from the unit which impacted the excavated area and backfill occurred in December 1985 during the removal of the unit. However, sampling and analyses were performed on the backfill and excavated area and revealed concentrations of TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001) well below maximum contaminant levels. The unit was RCRA closed in February 1987. The past potential for release to ground water, surface water, and air was low. The current potential for release to ground water, surface water, air, and on-site soils is low as the unit no longer exists.

Recommendations:

RAI recommends no further action for this unit at this time.



SWMU 10

Former "Oil House" Sump

Conclusions:

This unit inadvertently held spent TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001). A release from this unit to on-site soils and ground water occurred in March 1988 and the company agreed with IEPA to voluntarily clean up the surrounding area. A Ground Water Remediation Unit (SWMU 7) is currently in operation as part of the project to monitor the area for solvent contamination. The company plans to perform soil vapor extractions as well. The unit was located beneath what was the "Oil House" (which is currently the Hazardous Waste Storage Area, SWMU 2). The sump was destroyed and filled with concrete in 1988. The past potential for release to ground water, surface water, and air was low. The current potential for release to ground water, surface water, air, and on-site soils is low as the unit no longer exists.

Recommendations:

RAI recommends continuing remediation activities with oversight from IEPA. Results of ground water monitoring indicated that contaminant levels in all samples were well below drinking water standards.

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TABLE 3

SWMU SUMMARY

<u>SWMU</u>	<u>Dates of Operation</u>	<u>Evidence of Release</u>	<u>Recommended Further Action</u>
1. Satellite Accumulation Areas	1980 to present	None	No further action for this unit.
2. Hazardous Waste Storage Area	1989 to present	Soil beneath floor was contaminated with spent TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001). A ground water remediation unit was installed to remediate the area in 1989. Soil vapor extractions to be performed after May 1992.	Continue remediation activities, with oversight from IEPA, for the area relating to the Former "Oil House" Sump (SWMU 10). No further action for SWMU 2.
3. Grit Cone Accumulation Area	1989 to present	None	No further action for this unit.
4. PCB Accumulation Area	1989 to present	None	No further action for this unit.
5. Solid Waste Drum Storage Area	1989 to present	None	No further action for this unit.
6. Wastewater Treatment System	1986 to present	None	No further action for this unit.
7. Ground Water Remediation Unit	1989 to present	None	No further action for this unit.
8. Former Container Storage Area	1980 to 1988	None	No further action for this unit.

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TABLE 3 (cont'd)

SWMU SUMMARY

<u>SWMU</u>	<u>Dates of Operation</u>	<u>Evidence of Release</u>	<u>Recommended Further Action</u>
9. Former Waste Solvent UST	1980 to 1983 (taken out of service); removed in 1985; RCRA closed in 1987	A release during removal in 1985 led to contamination of backfill and excavated area. Sampling and analyses showed concentrations of solvents to be well below maximum contaminant levels.	No further action for this unit.
10. Former "Oil House" Sump	1980 to 1988	Soil beneath floor was contaminated with spent TCA (F001), acetone (F003), toluene (F005), and methylene chloride (F001). A ground water remediation unit was installed to remediate the area in 1989. Soil vapor extractions to be performed after May 1992.	Continue remediation activities with oversight from IEPA.

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ATTACHMENT A
VISUAL SITE INSPECTION SUMMARY AND PHOTOGRAPHS

VISUAL SITE INSPECTION SUMMARY

Motorola, Inc.
1301 East Algonquin Road
Schaumburg, Illinois
ILD 079 763 140

Date: August 4, 1992

Primary Facility Representative: Rick Kathan, Manager, Environmental, Safety and Industrial Hygiene, Communication Sector

Representative Telephone No.: (708) 576-5395

Additional Facility Representatives: Chaitan Daiya, Sector Manager, Environmental, Safety and Industrial Hygiene
Matthew C. Norton, Environmental Engineer, Communications Sector
Jody Shapiro, Manager, Environmental, Safety and Industrial

Inspection Team: Pete McLaughlin, Resource Applications, Inc. (RAI)
John Wong, RAI

Photographer: Rick Kathan, Motorola, Inc.

Weather Conditions: Sunny, warm; temperature 80°F

Summary of Activities: The visual site inspection (VSI) began at 9:30 a.m. with an introductory meeting. The inspection team explained the purpose of the VSI and the agenda for the visit. Facility representatives then discussed the facility's past and current operations, solid wastes generated, and release history. Facility representatives provided the inspection team with copies of requested documents.

The VSI tour began at 12:30 p.m. The inspection team, along with various facility representatives, walked through and around the facility to observe areas where hazardous constituents and solid wastes were managed. Photographs of the various areas were requested by RAI and taken by Rick Kathan of Motorola, at his request. The first area viewed was an outdoor concrete surface where a Former Waste Solvent Underground Storage Tank (SWMU 9) was located. The inspection team was then directed inside the facility to observe Motorola's Solid Waste Drum Storage Area (SWMU 5). Next, a Former Container Storage Area (SWMU 8) for

hazardous wastes was viewed. Currently, the area is used for storing raw materials and virgin chemicals (segregated properly). The Hazardous Waste Storage Area (SWMU 2) was then observed. Within this area, Motorola also consolidates hazardous wastes into 55-gallon drums. The inspection team then observed Motorola's Ground Water Remediation Unit (SWMU 7), a PCB Accumulation Area (SWMU 4), and various Satellite Accumulation Areas (SWMU 1). Facility representatives then showed the inspectors an on-site Wastewater Treatment Unit (SWMU 6), a Grit Cone Accumulation Area (SWMU 3) where nonhazardous solid waste was collected, and a former drain where a suspected release of cyanide plating solution had occurred in the past.

The tour concluded at 4:00 p.m., after which the inspection team held an exit meeting with facility representatives. The VSI was completed and the inspection team left the facility at 5:00 p.m.



Photograph No. 1

Location: SWMU 9

Orientation: Southeast

Date: 08/04/92

Description: Area where the 6,000-gallon Former Waste Solvent Underground Storage Tank was located.



Photograph No. 2

Orientation: Southwest

Description: The Solid Waste Drum Storage Area where PCB waste and nonhazardous grit is stored.

Location: SWMU 5

Date: 08/04/92



Photograph No. 3

Orientation: West

Description: Former Container Storage Area for hazardous wastes. The area is now used for storing chemical raw materials.

Location: SWMU 8

Date: 08/04/92



Photograph No. 4

Location: SWMU 2 and 10

Orientation: Southeast

Date: 08/04/92

Description: View of the current Hazardous Waste Storage Area (SWMU 2), and the location of the Former "Oil House" Sump (SWMU 10).



Photograph No. 5

Location: SWMU 2 and 10

Orientation: Southwest

Date: 08/04/92

Description: View of the current Hazardous Waste Storage Area (SWMU 2). In this area of the room, different wastes are consolidated into larger drums.



Photograph No. 6

Location: SWMU 7

Orientation: South

Date: 08/04/92

Description: View of the area where a concrete fire protection tank was located. In the background is a shed that houses the Ground Water Remediation Unit (SWMU 7).



Photograph No. 7

Orientation: Southwest

Description: View of the separator unit of the Ground Water Remediation Unit (SWMU 7).

Location: SWMU 7

Date: 08/04/92



Photograph No. 8
Orientation: Southwest
Description: The PCB Accumulation Area.

Location: SWMU 4
Date: 08/04/92



Photograph No. 9

Location: SWMU 1

Orientation: South

Date: 08/04/92

Description: One of the Satellite Accumulation Areas (SWMU 1) for solder waste in Shared Systems Division.



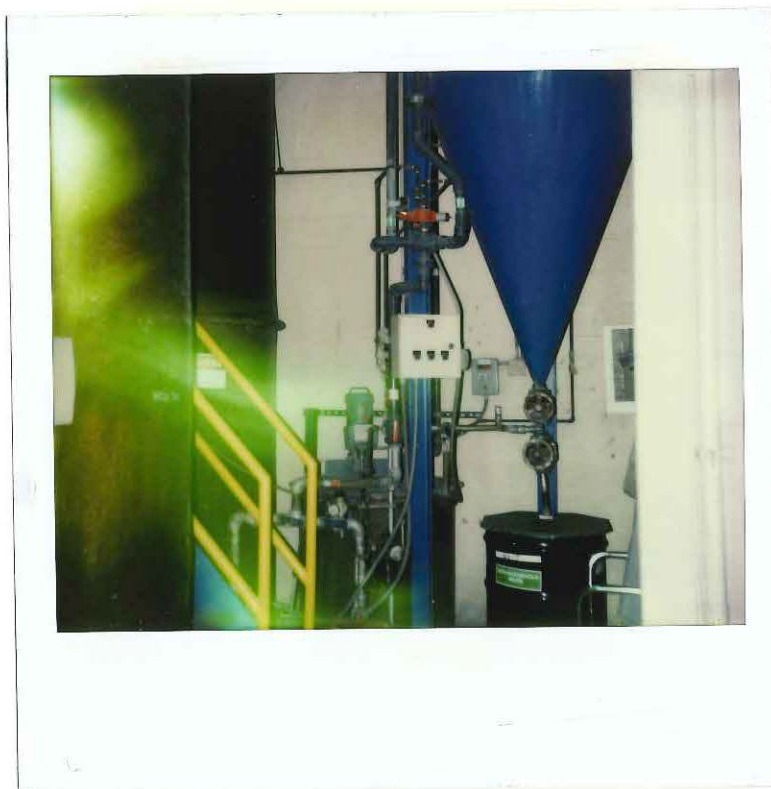
Photograph No. 10

Orientation: Southwest

Description: One of the Satellite Accumulation Areas (SWMU 1) for waste methanol in Components Division.

Location: SWMU 1

Date: 08/04/92



Photograph No. 11

Location: SWMU 3

Orientation: North

Date: 08/04/92

Description: A view of the Grit Cone Accumulation Area (SWMU 3) in the room where the wastewater treatment system is located.



Photograph No. 12

Orientation: East

Description: A view of the filter press unit of the wastewater treatment system.

Location: SWMU 6

Date: 08/04/92

ATTACHMENT B
VISUAL SITE INSPECTION FIELD NOTES

*

MOTOROLA, INC. 9:35 a.m. 8/4/92

SUBIL GODAMBE ESHI

BOB HOLCOMB

RICK KATHAM - RESPONSIBLE FOR THIS SITE

★ JOE SCARFARO - MANAGER IND. SAFETY : NY

MATT NORTON - E.E.

CHAITAN DARYO - MANAGER

E - ART COMPLEX : HOTEL : ^{OFFICE COMPLEX} ~~STEEL PLANT~~

SEE C - NOT OWNED BY MOTOROLA (~ 1/2 ACRE)

S - TOLLWAY

N - ART COMPLEX : GAS STATION : COMMERCIAL AREA

W - WETLAND AREA RESTAURANT BAR

L 25 ACRE

NEAREST SCHOOL PLUM GRAVE JR. HIGH 1 MILE

SHARP SYSTEM : ASSEMBLE BASE STATIONS

COMPONENTS DIV. QUARTZ CRYSTAL MANUFACTURING

WORLD HEADQUARTERS HERE ALSO

LAND MOBILE
PRODUCTS

SHARP SYSTEM

LIGHT ASSEMBLY : CHIP PLACEMENT - INVOLVES SINE SOLDER

SOLDER DENSE TREATED AS RECLAIMABLE (SKIMMING)

IF BUMP RAW MATL DOES LEAD

SILVER CONTENT MAY BE HIGH

ASKY
MATT

UNITED REFINERY CHICAGO, IL TRANSPIRE ALSO

~ 1,000 POUNDS WHEN MANIFESTED : SOLDER POT DUMP

N.H. GRIT, WASTE OIL

NEED
GDN RATES
FOR N.H. WASTES

COMPONENTS DIVISION:

GRW QUARTZ OFF-SITE IN PA

BROUGHT : CUT TO SIZE SIZE DETERMINES PRCD.

CRYSTALS (CLEAN ROOM) ARE MOUNTED PLACES IN METAL HOUSING

WASTES : NON HAZ BRIT USED AS LACING COMPOUND

DEWATER : SHIPPED BFI ZION, IL BFI TRANSPORT

SOLVENTS FOR DEGREASING

PRESENTLY FROM FREE 10/91

TCA : METHANOL USED AS DEGREASERS
→ P. BLOWING

RATES: SEE HAND OUT

SOLVENTS: ALL GO TO S.K. RECYCLED OR FUEL BLEND

WASTEWATER TREATMENT SYSTEM

WASTEWATER IS ACID OR BASE MATERIAL

CYANIDE REDUCTION

CHROMIC ACID ⇒ CHROMIUM REDUCTION

RINSE WATERS ARE THRU FLOW SYSTEM

CONCENTRATES
~~BRIT~~ ⇒ ~~THE~~ BATCH SYSTEM

CHROMIC ACID USED TO STRIP EXCESS PLATED MATL

CYANIDE AS STRIP (GOLD) ~~PLATE~~ PLATED MATL

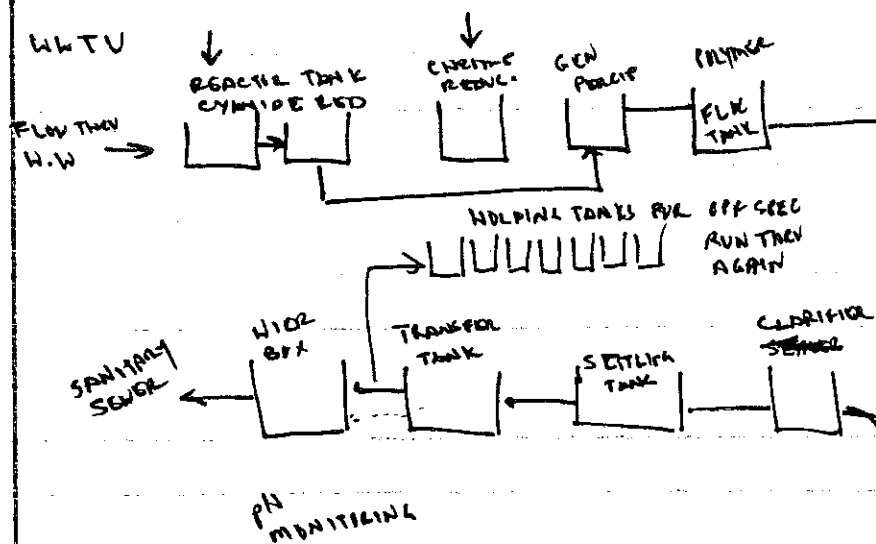
PLATING IN COME. ALSO LAB IN HOUSE

PATCH SYSTEM

CHROMIUM REMOVED FROM HEX ⇒ TRI

ENTER FLOW THRU.

BATCH TANKS



NITRIC ACID
HYDROCHLORIC ACID USED AS A CLEANING AGENT ON CRYSTALS

AQUA REGIA → DISSOLVES METAL CANNISTER IN A BEAKER

~~THE~~ CONCENTRATED MATL PLACED IN 10-15 GALLON PLASTIC CONTAIN
TRANSFER TO BATCH TREATMENT AND PLACE IN SYSTEM

WASTE N-METHYL PYROLE AS A CLOWER FOR CRYSTALS

ALL ACIDS ARE MANAGED IN THE WWTU EXCEPT
THOSE WHICH ARE LAB PACKED

SHAWD SYSTEM HAS A PLASMA LINE

WASTE FLUX : THINNER MIXTURE

↳ ISOPROPYL ALCOHOL

MAINTENANCE

produce "waste" oil

BOLD MAIN : PRODUCTION MAIN.

MOST WASTE FROM BOLD MAIN.

WASTE OIL FROM FORKLIFTS (MACHINE OILS FROM PROD. MAIN)

FROM-BASED OILS MAINTENANCE OF COMPRESSORS

↳ REUSED

FROTH GENERATED : USED AS A DEGREASING

CAPTURED IN COOLING COILS

SELF-CONTAINED FROTH CLEANER

NON-REUSABLE SENT TO SAFETY-KLEEN

ELGIN WILL BE USED AS A TRANS. FOR FLUID RECOVERY

LAQUER THINNER IN SAFETY-KLEEN

POST WASTE PAINT / PAINT THINNER

NOW USE LATEX BASED PAINTS

55-gallons SAT ⇒ BSA

PCB FROM FLUORESCENT LIGHT BALLIST

ROLLINS

TRANS, TX FOR INCIN. OWN TRANS

CLOSURE SO1, SO2 BOTH COMPLETE

~~WDA~~

OIL HOUSE - ^{LOW} VAPOR CONTROL

- SOIL - WILL DO VAPOR EXTRACTION
↳ ASAP

CHROMATE LEAKING FROM ~~PIPE~~ 1/90

MECHANICAL ROOM BUILT BELOW GROUND

CHROMATE USED TO PACIFY THE COOLING TOWER

ENTERED THE STORM SEWER ⇒ RETENTION POND RECLAIMED

SOIL SAMPLING IN RETENTION POND

NO SOIL REMOVED



WILL GIVE COPY OF REPORT

UST REMOVED FUEL OIL LEAK

2,000 G. TANK ~ 500 GALLONS IN TANK

PROBLEM DISCOVERED WHEN OIL TANK SIGHT GLASS

SHOWED WATER IN TANK

DETERMINED THAT TANK WAS LEAKING

SOIL REMOVED AND DISPOSED

STANDING WATER



WILL LIVE REPORT



FIRE IN RESEARCH FACILITY

RESULTED IN 10-gallon RELEASE OF SODIUM CYANIDE TO FLOOR DRAIN
MISHANDLING OF CHEMICALS

FLOOR LED TO EAST SIDE TO OUTFALL TO SEWER MAIN

DRAIN WAS PLUGGED BY DEBRIS PUMPED OUT BY MOTOROLA

WATER WAS TREATED THRU WWTU.

- SINCE ALL FLOOR DRAINS AT MOTOROLA ARE PLUGGED

PLUGGED 4/89 ENDED 12/89

PERMIT

MSD -

DISCHARGE

MWRG ED - INDUSTRIAL PERMIT

ALL PLANT WATER

NON-CONTACT COOLING BOILERS, CHILLERS, ECT.

TREATMENT WW

FLAMMABLE SOLVENTS IN OILS STORAGE AREA
CHEMICALS IN AN ADJACENT RM

NONHAZ WASTE (GLIT) SS 20 SS-y

PCB

SS 27 SS-y

ESD NOW ACID : CHEMICAL STORAGE (PARTIAL)

NEW EPOXY SURFACE

ENTRY WAY OPEN UP BERM WAS PRESENT BUT NOW (SOLID-ENTRY)

ADJACENT ROOM #2 CORROSIVE STORAGE

WILL BUILD CANOPY OVER OUTSIDE CONCRETE DRIVE

CONCRETE WILL BE EPOXY SEALED

ACUM

WASTE FLAM

TCA

WASTE OIL

WASTE FLUX THINNER

II ~~III~~ WASTE FLAM

I WASTE OIL (SENT TO SK.)

III ~~IIII~~ KEROSENE

I WASTE POLYBLENTHANE

I WASTE FROEN OIL

IIII ~~III~~ TCA

I LIQUID RUBBER POLYMER

I WASTE CIRCUIT BOARDS (DMG)

II BIDACT D001 (SOLVENT USED)

III SOLVENT RAGS (INCINERATION)

I LATEX PAINT WASTE

III ~~IIII~~ LAB PACK

~~LAB PACK~~

II PARAFFIN WAX

II ASBESTOS BOX

PAINT BRUSHES

PLATING FILTRERS

IIII ~~IIII~~ LAB PACK 35

I ASBESTOS 55-g.

250 { D008 1250 lbs. INKOTS

POT DUMP

II

III LEAD ACID BATT.

I CHROMITE 35-g.

LAB PACK 5-g.

I 2.5 WASTE OIL

I 5g FLAM

* H2O WASTE 10/lbs

REMEDIATION UNIT HAS SECONDARY

250 g NIW USE 55 g.

~~RE FLOOR~~ PAINT ACCUM AREA (LATER)
CHAR. AS HAZ.

PCB ROLLINS

↓
SHARED
SYSTEMS

6 GAL METAL CANS IN SOLOPING AREA - CLEAN ROOM

ADVANCED RE FLOW
FACTORY

NITROGEN GAS WASTE FROM

Ovens (CONVECTION) IN SILVER ROOM

REFLOW = HEAT V

FORMIC ACID FUMES VENTED

AS OFFGAS
TI WAVE LIT

IPA

TRIPINOL

CRYSTAL BLANK MANUF (CBM)

CRYSTAL CUTTING

SURRY COLLECTED IN TRAP LIDS TO COME
IN WWTV

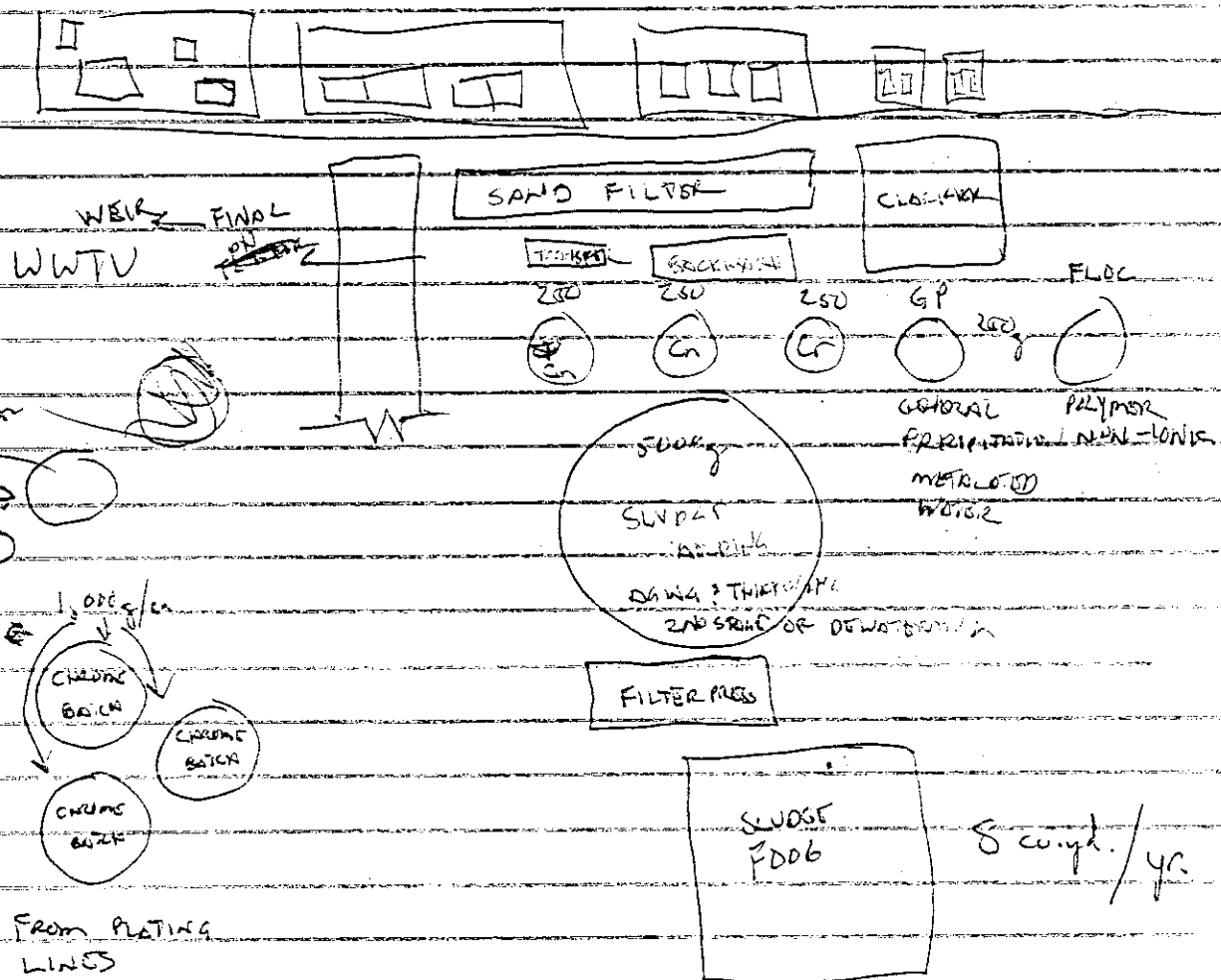
COME CLEAN MOSTLY SODIUM HYDROXIDE
TREATED ON SITE

WW
RINSE STATION GOES TO TREATMENT UNIT

METHANOL SAA

2 5-g

PHOTOGRAPHIC PLANT WITH LWS WILL SEND PFD



WEIR IS pH MINIMIZED
METERED TO SANITARY

discuss (operations)
2.2 AOE, summer

DETECTION
ALARMS
IN HXHV
AREA

USTs

1 GASOLINE 1,000 g
1 DIESEL 1,000 g

DETECTION
ALARMS
IN MTS
BOL?
VISITOR
CENTRAL

1 DIESEL 2,000 g
1 DIESEL 2,000 g

DBL WALL CONSTRUCTION

FIBERGLASS

how old -
install

intg. testing -
when testing -

MTG :

OVER 100 TON LIMIT PROCEEDS IN 1991

FED. IMPLEMENTATION PLAN NO. 513M-780 TO US-GM

RESUBMITTER CURRENT EMISSIONS AT 96 TONS

NR

CORRECTIVE ACTION STABILIZATION QUESTIONNAIRE

Completed by: Rick Hersemann
Date: September 17, 1992

Background Facility Information

Facility Name: Motorola, Inc.
EPA Identification No.: ILD 079 763 140
Location (City, State): Schaumburg, IL
Facility Priority Rank: Moderate

1. Is this checklist being completed for one solid waste management unit (SWMU), several SWMUs, or the entire facility? Explain.

The entire facility, which includes 10 SWMUs

Status of Corrective Action Activities at the Facility

2. What is the current status of HSWA corrective action activities at the facility?
- ☐ No corrective action activities initiated (Go to 5)
 - ☒ RCRA Facility Assessment (RFA) or equivalent completed
 - ☐ RCRA Facility Investigation (RFI) underway
 - ☐ RFI completed
 - ☐ Corrective Measures Study (CMS) completed
 - ☐ Corrective Measures Implementation (CMI) begun or completed
 - ☐ Interim Measures begun or completed

3. If corrective action activities have been initiated, are they being carried out under a permit or an enforcement order?

☐ Operating permit
☐ Post-closure permit
☐ Enforcement order
☒ Other (Explain)

Facility installed a voluntary ground-water remediation unit.

4. Have interim measures, if required or completed [see Question 2], been successful in preventing the further spread of contamination at the facility?

☐ Yes
☐ No
☒ Uncertain; still underway
☐ Not required

Additional explanatory notes:

Facility installed a ground-water remediation unit with an air stripper to address releases to the ground water at the Former Oil House Sump (SWMU 10).

Facility Releases and Exposure Concerns

5. To what media have contaminant releases from the facility occurred or been suspected of occurring?

☒ Ground water
☐ Surface water
☐ Air
☒ Soils

6. Are contaminant releases migrating off-site?

☐ Yes; Indicate media, contaminant concentrations, and level of certainty.

Groundwater: _____

Surface water: _____

Air: _____

Soils: _____

☒ No
☐ Uncertain

- 7a. Are humans currently being exposed to contaminants released from the facility?

☐ Yes (Go to 8a)
☒ No
☐ Uncertain

Additional explanatory notes:

Ground-water remediation unit has contained the ground-water contamination to the area around SWMU 10.

- 7b. Is there a potential for human exposure to the contaminants released from the facility over the next 5 to 10 years?

☐ Yes
☒ No
☐ Uncertain

Additional explanatory notes:

Ground-water contamination is localized and is being treated. There are no drinking water wells within 1 mile of facility.

- 8a. Are environmental receptors currently being exposed to contaminants released from the facility?

☐ Yes (Go to 9)
☒ No
☐ Uncertain

Additional explanatory notes:

Contaminated ground water is being contained on site by the ground-water remediation unit and is being treated.

- 8b. Is there a potential that environmental receptors could be exposed to the contaminants released from the facility over the next 5 to 10 years?

☐ Yes
☒ No
☐ Uncertain

Additional explanatory notes:

Contaminated ground water is contained on site and is being treated.

Anticipated Final Corrective Measures

9. If already identified or planned, would final corrective measures be able to be implemented in time to adequately address any existing or short-term threat to human health and the environment?

☒ (X) Yes
☐ () No
☐ () Uncertain

Additional explanatory notes:

Ground-water remediation unit has been installed to contain and treat ground water at the facility.

10. Could a stabilization initiative at this facility reduce the present or near-term (e.g., less than two years) risks to human health and the environment?

☒ (X) Yes
☐ () No
☐ () Uncertain

Additional explanatory notes:

Stabilization initiative has already been implemented.

11. If a stabilization activity were not begun, would the threat to human health and the environment significantly increase before final corrective measures could be implemented?

☐ () Yes
☐ () No
☒ (X) Uncertain

Additional explanatory notes:

Technical Ability to Implement Stabilization Activities

12. In what phase does the contaminant exist under ambient site conditions? Check all that apply.

☒ (X) Solid
☐ () Light non-aqueous phase liquids (LNAPLs)
☐ () Dense non-aqueous phase liquids (DNAPLs)
☒ (X) Dissolved in ground water or surface water
☐ () Gaseous
☐ () Other _____

13. Which of the following major chemical groupings are of concern at the facility?

☒ (X) Volatile organic compounds (VOCs) and/or semi-volatiles
☐ () Polynuclear aromatics (PAHs)
☐ () Pesticides
☐ () Polychlorinated biphenyls (PCBs) and/or dioxins
☐ () Other organics
☐ () Inorganics and metals
☐ () Explosives
☐ () Other _____

14. Are appropriate stabilization technologies available to prevent the further spread of contamination, based on contaminant characteristics and the facility's environmental setting? [See Attachment A for a listing of potential stabilization technologies.]

☐ Yes; Indicate possible course of action.

☒ No; Indicate why stabilization technologies are not appropriate; then go to Question 18.

Ground-water remediation unit should contain and treat the ground-water contamination at the facility.

15. Has the RFI, or another environmental investigation, provided the site characterization and waste release data needed to design and implement a stabilization activity?

☐ Yes
☐ No

If No, can these data be obtained faster than the data needed to implement the final corrective measures?

☐ Yes
☐ No

Timing and Other Procedural Issues Associated with Stabilization

16. Can stabilization activities be implemented more quickly than the final corrective measures?

☐ Yes
☐ No
☐ Uncertain

Additional explanatory notes:

17. Can stabilization activities be incorporated into the final corrective measures at some point in the future?

☐ Yes
☐ No
☐ Uncertain

Additional explanatory notes:

Conclusion

18. Is this facility an appropriate candidate for stabilization activities?

- () Yes
() No, not feasible
(X) No, not required
() Further investigation necessary

Explain final decision, using additional sheets if necessary.

A ground-water remediation unit has been installed to contain and treat ground-water contamination at the facility. Ground-water contamination is confined to the Former Oil House Sump (SWMU 10). Additional stabilization activities are not required.

Q

CERTIFICATION REGARDING POTENTIAL RELEASES FROM
SOLID WASTE MANAGEMENT UNITS

FACILITY NAME: MOTOROLA, INC.

EPA I.D. NUMBER: ILD079763140

LOCATION CITY: SCHAUMBURG

STATE: ILLINOIS

1. Are there any of the following solid waste management units (existing or closed) at your facility? NOTE - DO NOT INCLUDE HAZARDOUS WASTE UNITS CURRENTLY SHOWN IN YOUR PART A APPLICATION

	YES	NO
• Landfill	<u> </u>	<u>X</u>
• Surface Impoundment	<u> </u>	<u>X</u>
• Land Farm	<u> </u>	<u>X</u>
• Waste Pile	<u> </u>	<u>X</u>
• Incinerator	<u> </u>	<u>X</u>
• Storage Tank (Above Ground)	<u> </u>	<u>X</u>
• Storage Tank (Underground)	<u> </u>	<u>X</u>
• Container Storage Area	<u> </u>	<u>X</u>
• Injection Wells	<u> </u>	<u>X</u>
• Wastewater Treatment Units	<u> </u>	<u>X</u>
• Transfer Stations	<u> </u>	<u>X</u>
• Waste Recycling Operations	<u> </u>	<u>X</u>
• Waste Treatment, Detoxification	<u> </u>	<u>X</u>
• Other <u> </u>	<u> </u>	<u>X</u>

2. If there are "Yes" answers to any of the items in Number 1 above, please provide a description of the wastes that were stored, treated or disposed of in each unit. In particular, please focus on whether or not the wastes would be considered as hazardous wastes or hazardous constituents under RCRA. Also include any available data on quantities or volume of wastes disposed of and the dates of disposal. Please also provide a description of each unit and include capacity, dimensions and location at facility. Provide a site plan if available.

N/A

NOTE: Hazardous wastes are those identified in 40 CFR 261. Hazardous constituents are those listed in Appendix VIII of 40 CFR Part 261.

3. For the units noted in Number 1 above and also those hazardous waste units in your Part A application, please describe for each unit any data available on any prior or current releases of hazardous wastes or constituents to the environment that may have occurred in the past or may still be occurring.

Please provide the following information

- a. Date of release
- b. Type of waste released
- c. Quantity or volume of waste released
- d. Describe nature of release (i.e., spill, overflow, ruptured pipe or tank, etc.)

N/A

4. In regard to the prior or continuing releases described in Number 3 above, please provide (for each unit) any analytical data that may be available which would describe the nature and extent of environmental contamination that exists as a result of such releases. Please focus on concentrations of hazardous wastes or constituents present in contaminated soil or groundwater.

N/A

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the submittal is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (42 U.S.C. 6902 et seq. and

40 CFR 270.11(d))

Bradford K. Kroha

Corporate Vice President

Director - Comm. Sector Sourcing

Typed Name and Title

Bradford K. Kroha

Signature

February 14, 1986

Date

CONTINUING RELEASES AT PERMITTED FACILITIES

Sec. 206. Section 3004 of the Solid Waste Disposal Act is amended by adding the following new subsection after subsection (t) thereof:

"(u) CONTINUING RELEASES AT PERMITTED FACILITIES.—Standards promulgated under this section shall require, and a permit issued after the date of enactment of the Hazardous and Solid Waste Amendments of 1984 by the Administrator or a State shall require, corrective action for all releases of hazardous waste or constituents from any solid waste management unit at a treatment, storage, or disposal facility seeking a permit under this subtitle, regardless of the time at which waste was placed in such unit. Permits issued under section 3005 shall contain schedules of compliance for such corrective action (where such corrective action cannot be completed prior to issuance of the permit) and assurances of financial responsibility for completing such corrective action."